

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



JW  
Orig. Attached

February 14, 2006

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

Mr. Terry Davis  
Oakland Real Estate Ltd.  
3 Riverway, Suite 1150  
Houston, TX 77056

Dear Mr. Davis:

Subject: Fuel Leak Site Case Closure; T.D. Rowe, 8134 Capwell Drive, Oakland, CA; Case No. RO0002848

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Residual concentrations of up to 160 milligrams per kilogram (mg/kg) of total petroleum hydrocarbons as gasoline remain in soil at the site.
- Residual concentrations of up to 4,900 milligrams per liter ( $\mu\text{g/L}$ ) of total petroleum hydrocarbons as gasoline remain in groundwater at the site.
- Residual concentrations of up to 72  $\mu\text{g/L}$  of methyl tert-butyl ether remain in groundwater at the site.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos, P.E.  
LOP and Toxics Program Manager

Enclosures:

1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:

Ms. Cherie McCaulou (w/enc)  
SF- Regional Water Quality Control Board  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Mr. Toru Okamoto (w/enc)  
State Water Resources Control Board  
UST Cleanup Fund  
P.O. Box 944212  
Sacramento, CA 94244-2120

Mr. Leroy Griffin (w/enc)  
City of Oakland Fire Department  
250 Frank Ogawa Plaza, Suite 3341  
Oakland, CA 94612

Mr. Paul King  
P & D Environmental, Inc.  
55 Santa Clara Avenue, Suite 240  
Oakland, CA 94610

Werry Wickham (w/orig enc), D. Drogos (w/enc), R. Garcia (w/enc)



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February 14, 2006

Mr. Terry Davis  
Oakland Real Estate Ltd.  
3 Riverway, Suite 1150  
Houston, TX 77056

**REMEDIAL ACTION COMPLETION CERTIFICATE**

Dear Mr. Davis:

Subject: Fuel Leak Site Case Closure; T.D. Rowe, 8134 Capwell Drive, Oakland, CA; Case No. RO0002848

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung  
Director  
Alameda County Environmental Health

**CASE CLOSURE SUMMARY  
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

**I. AGENCY INFORMATION**

Date: January 18, 2006

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Hazardous Materials Specialist

**II. CASE INFORMATION**

Site Facility Name: T.D. Rowe		
Site Facility Address: 8134 Capwell Drive, Oakland, CA 94621		
RB Case No.: 01-3530	Local Case No.: --	LOP Case No.: RO0002848
URF Filing Date: 08/09/1999	SWEEPS No.: ---	APN: 042-4425-006-06
Responsible Parties	Addresses	Phone Numbers
Terry Davis, Oakland Real Estate, Ltd.	3 Riverway, Suite 1150, Houston, TX 77056	713-961-2922

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	3,000 gallons	Gasoline and Diesel	Removed	04/16/1999
2	3,000 gallons	Gasoline and Diesel	Removed	04/16/1999
Piping			Removed	04/16/1999

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and Type of Release: Unknown. No holes were observed in the tanks but the fittings for one of the tanks were reported to be damaged.		
Site characterization complete? Yes	Date Approved By Oversight Agency: ----	
Monitoring wells installed? Yes	Number: 3	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 4	Lowest Depth: 6	Flow Direction: Southwest
Most Sensitive Current Use: Discharge to surface water.		

Summary of Production Wells in Vicinity:

Based on well surveys conducted by Alameda County Public Works Agency and the California Department of Water Resources, no water supply wells are located within 2,000 of the site.

Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Airport Channel
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	3 – 3,000 gallon tanks	Transported to Ecology Control Industries in Richmond, CA for disposal	04/16/1999
Piping	Not reported	Removed; disposal destination not reported	04/16/1999
Free Product	None	--	--
Soil	Approximately 150 tons	Transported to Vasco Road Landfill in Livermore, CA for disposal	04/29/1999
Groundwater	950 gallons	Transported to Alviso Independent, 5002 Archer Street, Alviso, CA for disposal	04/16/1999

**MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP**  
 (Please see Attachments 1 through 7 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	5,900	160	99,000(1)	4,900(1)
TPH (Diesel)	61	61	88,000	88,000
TPH (Motor Oil)	<25	<25	6,000(2)	6,000(2)
Benzene	220	3.9	0.0045	0.0045
Toluene	500	0.003	0.0015	0.0015
Ethylbenzene	1,500	3.6	0.09	0.09
Xylenes	14,000	5.0	0.29	0.29
Heavy Metals	6.7(3)	6.7(3)	0.82(3)	0.82(3)
MTBE	0.057(4)	0.021(4)	72(5)	72(5)
Other (8240/8270)	NA(6)	NA(6)	NA(6)	NA(6)

- (1) The maximum TPH as gasoline concentration before cleanup was detected in a grab groundwater sample collected directly from the tank pit during tank removal. The maximum concentration detected after cleanup was from a grab groundwater sample collected after overexcavation the during site investigation phase.
- (2) The maximum TPH as diesel concentration detected in groundwater without silica gel cleanup was 6,000 ppb; the maximum TPH as diesel concentration detected after silica gel cleanup was 2,900 ppb.
- (3) Total lead; no other metal analyses conducted.
- (4) <0.05 ppm TAME, <0.05 ppm ETBE, <0.05 ppm DIPE, <0.25 ppm TBA, <0.05 ppm EDB, and <0.05 ppm EDC in soil.
- (5) <10 ppb TAME, <10 ppb ETBE, <10 ppb DIPE, <50 ppb TBA, <10 ppb EDB, and <10 ppb EDC in groundwater.
- (6) No analyses by EPA Methods 8240 or 8270.

#### Site History and Description of Corrective Actions:

The site is a commercial property located at 8134 Capwell Drive in Oakland that is bordered by commercial properties. Two 3,000-gallon fiberglass tanks were removed from the site on April 16, 1999. The tanks were described in the tank removal report as gasoline tanks but the tank closure permit application indicated that the tanks were used to store both gasoline and diesel fuel. The tank removal excavation extended to approximately 6 feet below ground surface (bgs). Visibly stained soil and odor was observed in the excavation and elevated concentrations of Total Petroleum Hydrocarbons as gasoline (TPHg) were detected in a soil sample collected from the north wall of the tank excavation. Approximately 150 tons of hydrocarbon-impacted soil was overexcavated from the north wall of the excavation. Groundwater was encountered in the excavation at approximately 4 to 6 feet bgs. The surface of the water in the excavation was skimmed to remove observed free product. A water sample collected from the excavation detected elevated concentrations of TPHg. Approximately 800 gallons of water was vacuumed and pumped from the tank excavation for off-site disposal.

As part of the first phase of site investigation, four soil borings were advanced on August 24, 2004 to a depth of 8 feet bgs near the UST excavation and along a storm drain located northwest of the excavation. A mild to strong gasoline odor was observed in each of the borings. TPHg was detected in groundwater at a concentration of 49,000 µg/L in one boring located approximately 20 feet downgradient from the tank pit but TPHg was not detected in a groundwater sample collected approximately 50 feet downgradient from the UST excavation.

Additional borings were advanced to various depths at the site on April 26, 2005 in order to further assess the vertical and lateral extent of contamination. Soil samples and grab groundwater samples were collected in each boring. Grab groundwater samples were collected at depths of 8 feet bgs in each boring and at depths of 20 and 28 feet bgs, respectively, in two of the borings. TPHd was detected at a concentration of 4,400 µg/L in the grab groundwater sample collected at a depth of 8 feet bgs in boring B7a, which was located within the center of the former tank excavation. TPH as diesel was detected at a concentration of 88,000 µg/L in the grab groundwater sample collected at a depth of 28 feet bgs in boring B7b, located approximately one foot west of the former tank excavation. Due to the elevated concentration of TPHd detected at 28 feet bgs in boring B-7b, further vertical delineation was required.

Three monitoring wells were installed at the site in May 2005. The monitoring wells are screened in the shallow groundwater zone from depths of approximately 4 and 11.5 feet bgs. TPHg was not detected in groundwater samples from any of the monitoring wells and TPHd was detected at concentrations of 61 to 64 µg/L in the two downgradient wells. BTEX and fuel oxygenates were not detected in groundwater samples from any of the wells. The hydraulic gradient for the site appears to be consistently to the southwest at 0.013 to 0.014 based on groundwater elevations in the monitoring wells measured six times between May 27, 2005 and June 6, 2005.

Soil borings indicate that a Bay Mud layer consisting of silty clay is continuous across the site and is typically encountered from approximately 10 to 20 feet bgs at the site. The upper 10 feet of soil consists of fill and native soils including clays, silts, sands, and gravels. A sand layer appeared to be frequently encountered at depths of 6 to 9 feet bgs. Silty and sandy soils were encountered below the Bay Mud to the maximum depth of the borings (58 feet bgs).

On September 7, 2005, a soil electrical conductivity probe was advanced to depths up to 58 feet bgs at four locations. Based on the results of the electrical conductivity probe and boring logs, depth-discrete grab groundwater samples were collected in each of the four borings. In order to assess the vertical extent of TPH below the Bay Mud, one grab groundwater sample was collected at a depth of 48 feet bgs from boring B-11b, which is located adjacent to the former tank pit excavation. TPHg was not detected and TPHd was detected at a concentration of 77 µg/L in the groundwater sample collected from 48 feet bgs in the area of the former tank excavation.

The investigation results indicate that the vertical and horizontal extent of contamination in soil and groundwater has been defined. Residual TPH concentrations in soil following UST removal and overexcavation of the north wall of the excavation are below San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for commercial land use (ESLs [February 2005]). TPHg and TPHd are present in shallow groundwater above the Bay Mud at concentrations exceeding ESLs over a limited area near and immediately downgradient from the former USTs. BTEX was not detected in soil and was detected in only one groundwater sample collected during the site investigations at a concentration of 3 µg/L. The TPH is described as aged gasoline in laboratory report descriptions. For this reason, volatilization to indoor air is not considered an exposure pathway of concern. The extent of TPH in groundwater below the Bay Mud appears to be limited to the area of one sampling location near the former USTs.

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? <input checked="" type="radio"/> Yes <input type="radio"/> No		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? <input checked="" type="radio"/> Yes <input type="radio"/> No		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for commercial land use. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated. This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination posing a nuisance for subsurface utility work.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 3
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

**V. ADDITIONAL COMMENTS, DATA, ETC.**

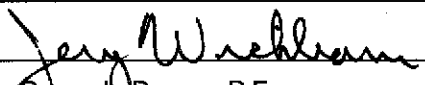
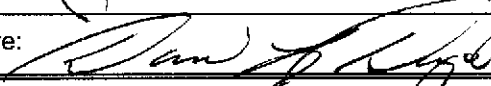
Considerations and/or Variances:

Residual TPH as gasoline and TPH as diesel remain in shallow groundwater at concentrations exceeding ESLs in the area of the former USTs and a limited area downgradient from the former USTs. However, based on the general absence of aromatic fuel hydrocarbons and limited extent of the plume, degradation of fuel hydrocarbons appears to be occurring. Therefore, TPH concentrations in soil and groundwater and the size of the plume are expected to decrease over time.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

**VI. LOCAL AGENCY REPRESENTATIVE DATA**

Prepared by: Jerry Wickham	Title: Hazardous Materials Specialist
Signature: 	Date: 01/18/06
Approved by: Donna Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: 	Date: 01/18/06

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.



RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: <i>Ch. Mc. Cantor</i>	Date: <i>1/25/06</i>

**VIII. Monitoring Well Decommissioning**

Date Requested by ACEH: <i>01/26/06</i>	Date of Well Decommissioning Report: <i>02/10/06</i>
All Monitoring Wells Decommissioned: <input checked="" type="radio"/> Yes <input type="radio"/> No	Number Decommissioned: <i>3</i>   Number Retained: <i>0</i>
Reason Wells Retained: <i>NA</i>	
Additional requirements for submittal of groundwater data from retained wells: <i>NA</i>	
ACEH Concurrence - Signature: <i>Joseph K. Williams</i>	Date: <i>02/10/06</i>

**Attachments:**

1. Site Location Map; Sample Location Map
2. Site Vicinity Map Showing Geologic Cross-Section Locations; Geologic Cross-Sections
3. TPH-G in Soil at 4.5 Feet Below Ground Surface; TPH-D in Soil at 4.5 Feet Below Ground Surface; TPH-MO in Soil at 4.5 Feet Below Ground Surface
4. TPH-G in Shallow Groundwater at 8 Feet Below Ground Surface; TPH-D in Shallow Groundwater at 8 Feet Below Ground Surface; TPH-G in Deeper Groundwater at 26-28 Feet Below Ground Surface; TPH-D in Deeper Groundwater at 26-28 Feet Below Ground Surface
5. Analytical Data Tables
6. Boring Logs

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

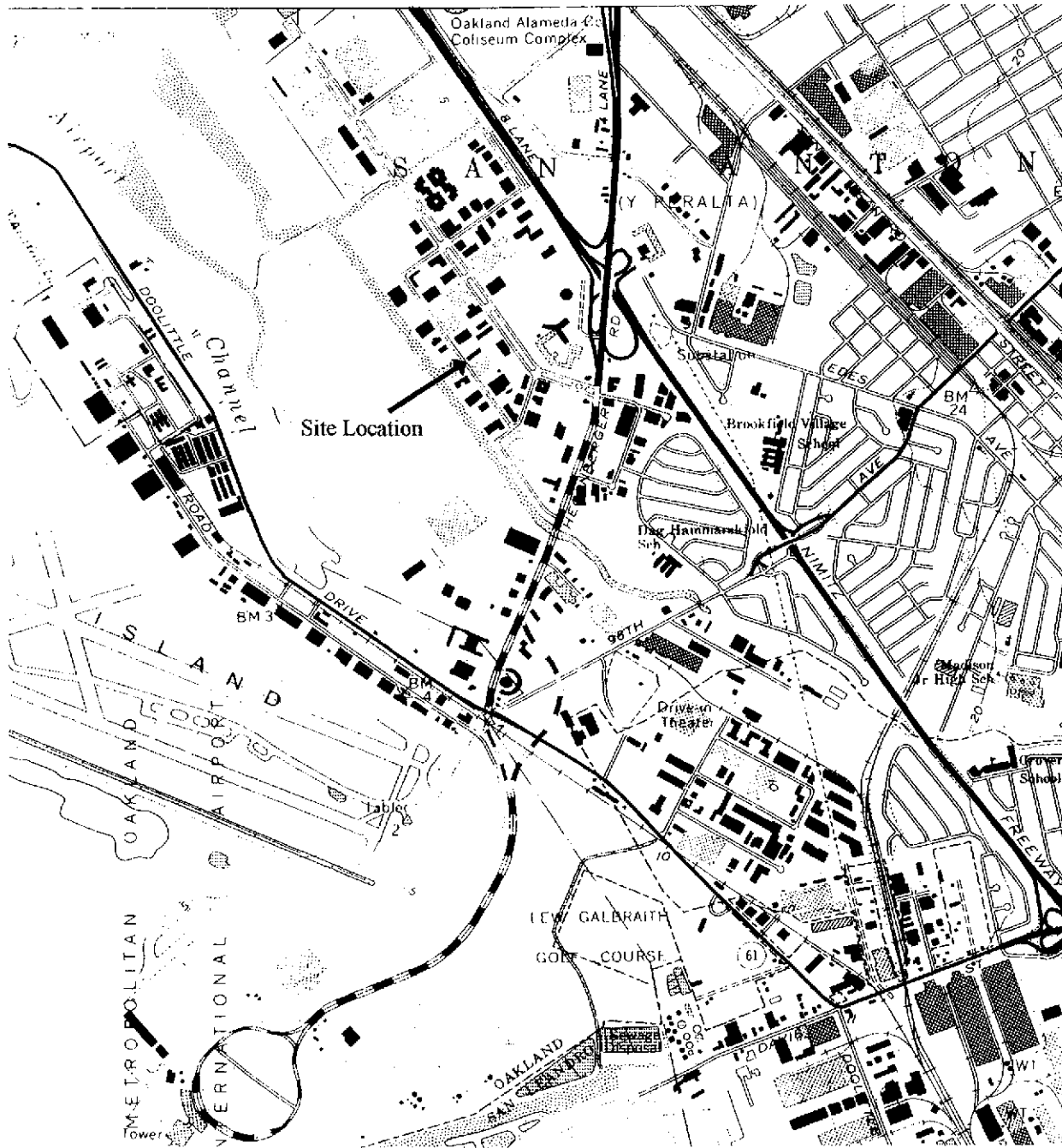
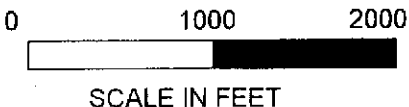


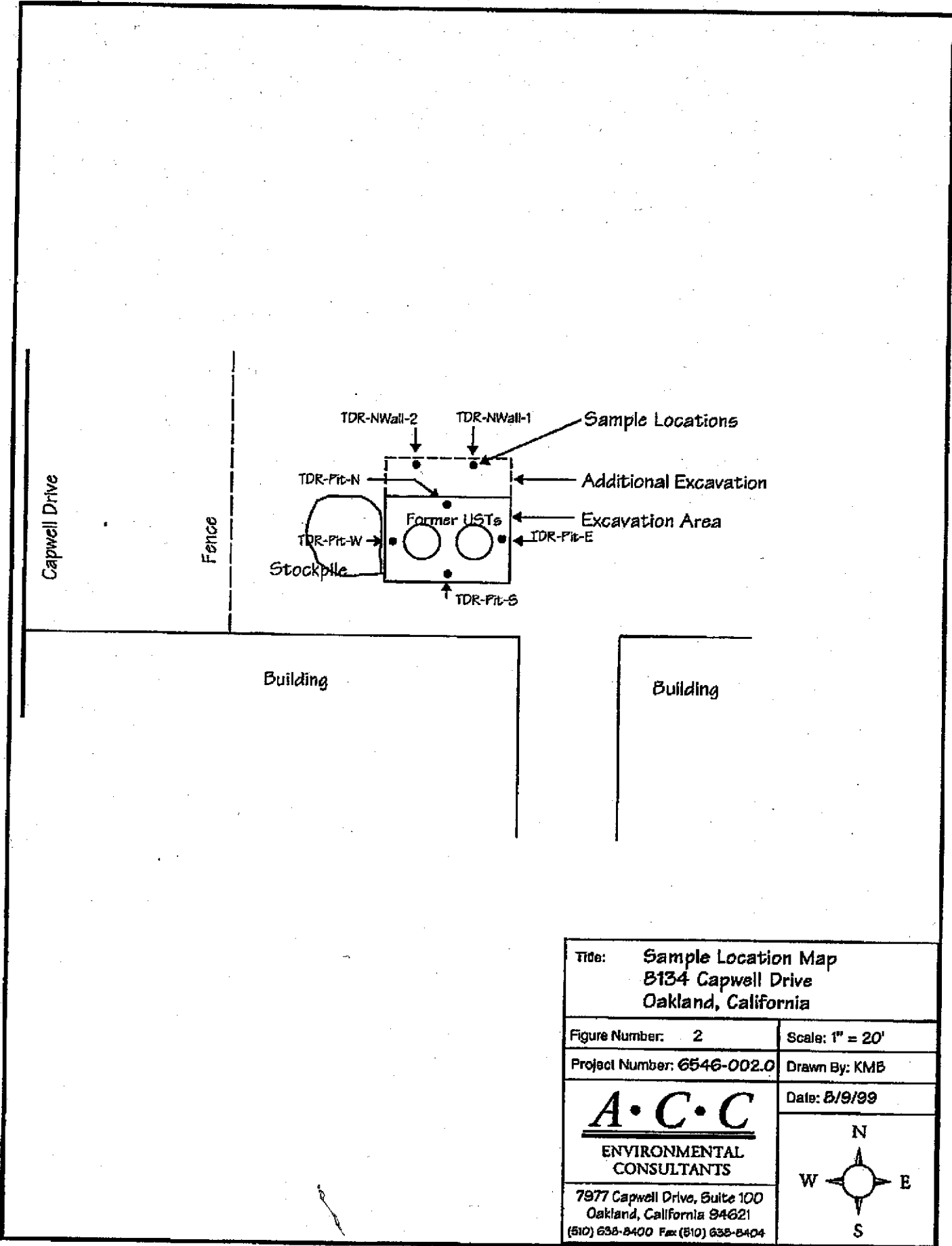
Figure 1  
 Site Location Map  
 8134 Capwell Drive  
 Oakland, California



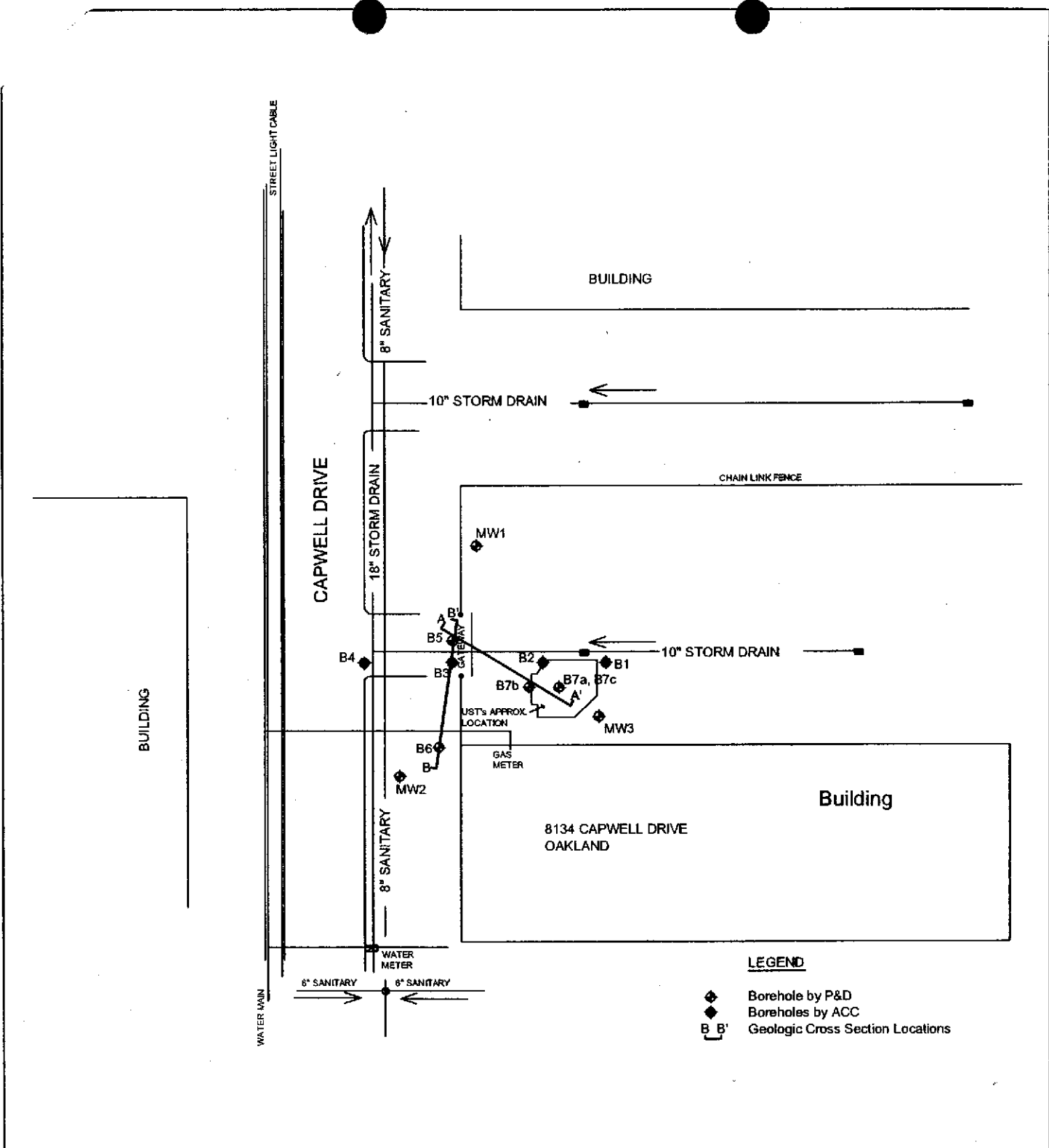
Base Map From:  
 U.S. Geological Survey  
 San Leandro, Calif.  
 Photorevised 1980

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 Oakland, CA 94610  
 (510) 658-6916





<b>Title:</b> Sample Location Map B134 Capwell Drive Oakland, California	
<b>Figure Number:</b> 2	<b>Scale:</b> 1" = 20'
<b>Project Number:</b> 6546-002.0	<b>Drawn By:</b> KMB
	<b>Date:</b> 5/9/99
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax (510) 638-8404	



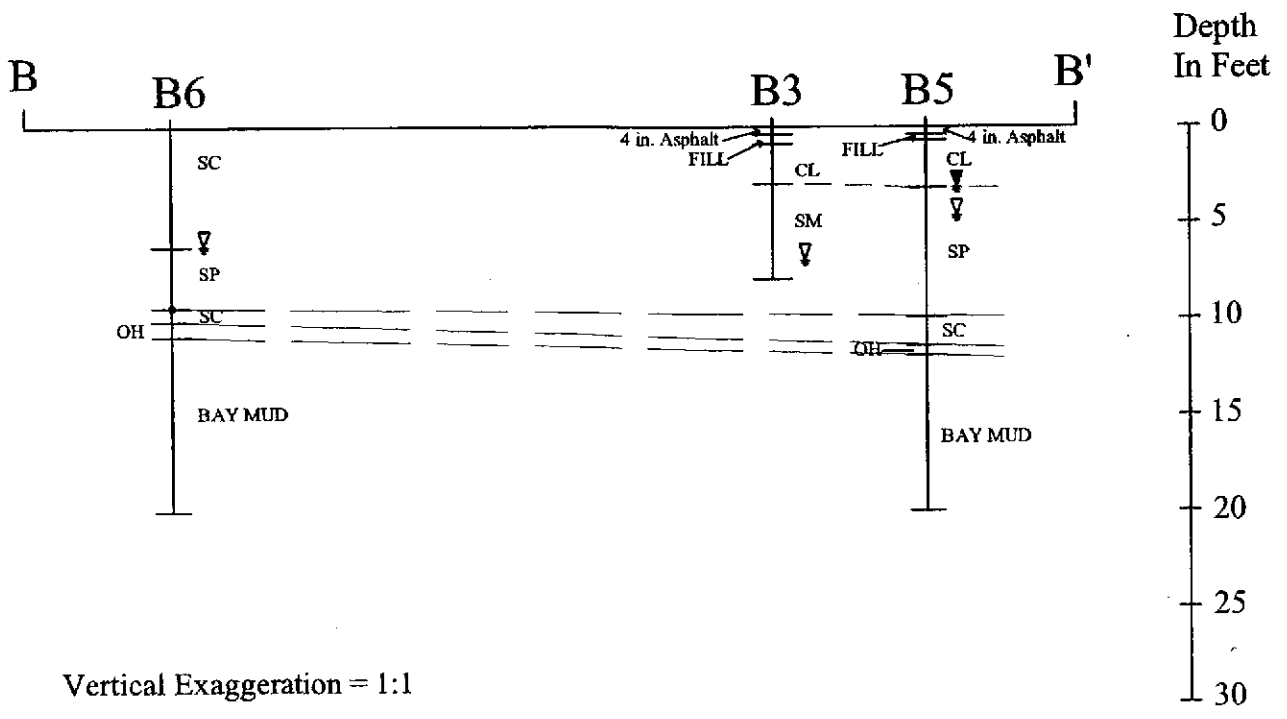
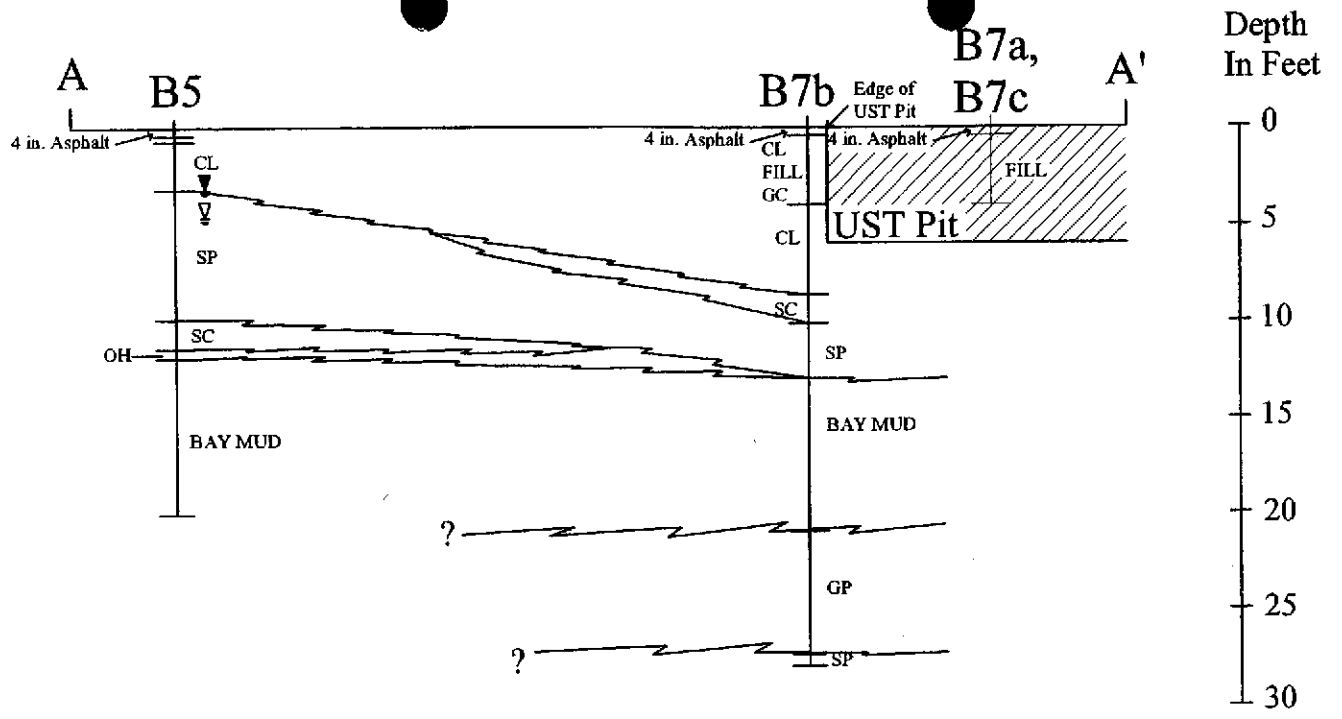
**Figure 2**  
 Site Vicinity Map Showing  
 Geologic Cross-Section Locations  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
 California Utility Surveys  
 Feb. 14, 2005

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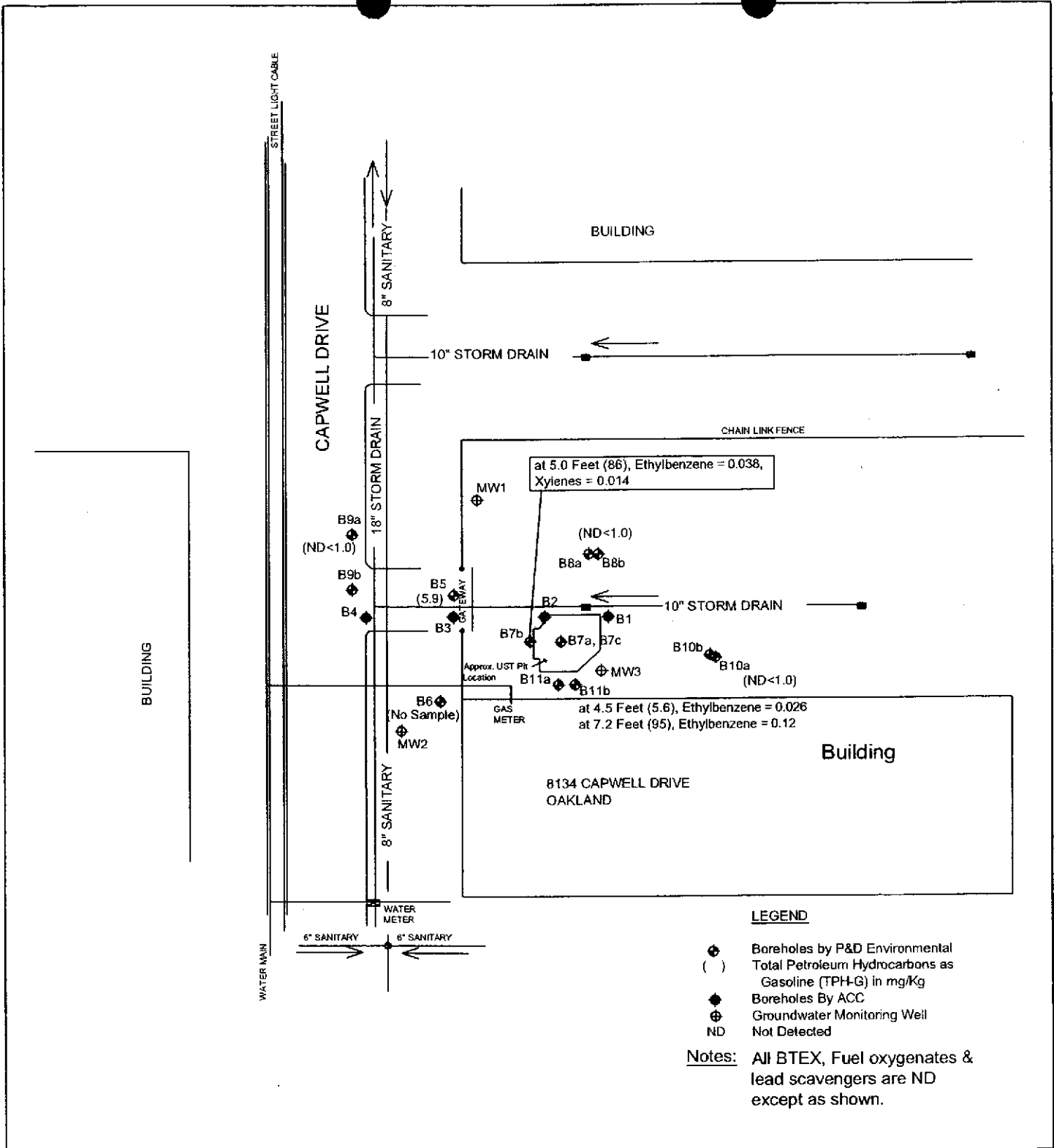


Vertical Exaggeration = 1:1

Figure 3  
 Geologic Cross-Sections  
 8134 Capwell Drive  
 Oakland, California

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0 10  
 Scale In Feet



**LEGEND**

- ⊕ Boreholes by P&D Environmental
- ( ) Total Petroleum Hydrocarbons as Gasoline (TPH-G) in mg/Kg
- ◆ Boreholes By ACC
- ⊕ Groundwater Monitoring Well
- ND Not Detected

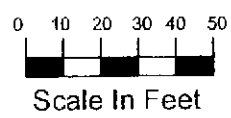
**Notes:** All BTEX, Fuel oxygenates & lead scavengers are ND except as shown.

**Figure 2**  
 TPH-G in Soil at 4.5 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
 California Utility Surveys  
 Feb. 14, 2005

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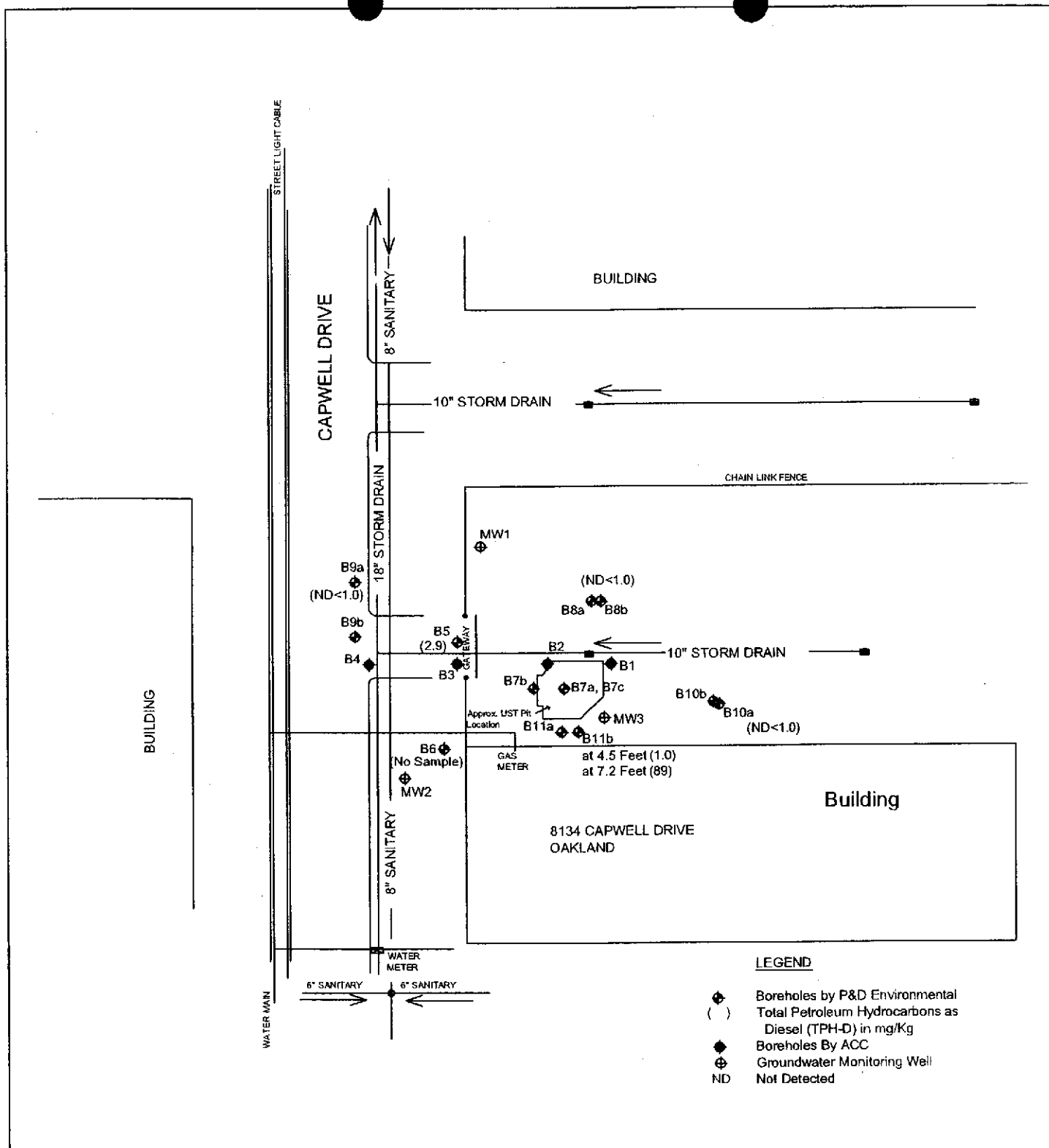


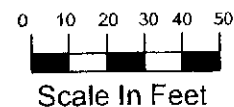
Figure 3  
 TPH-D in Soil at 4.5 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
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 Feb. 14, 2005

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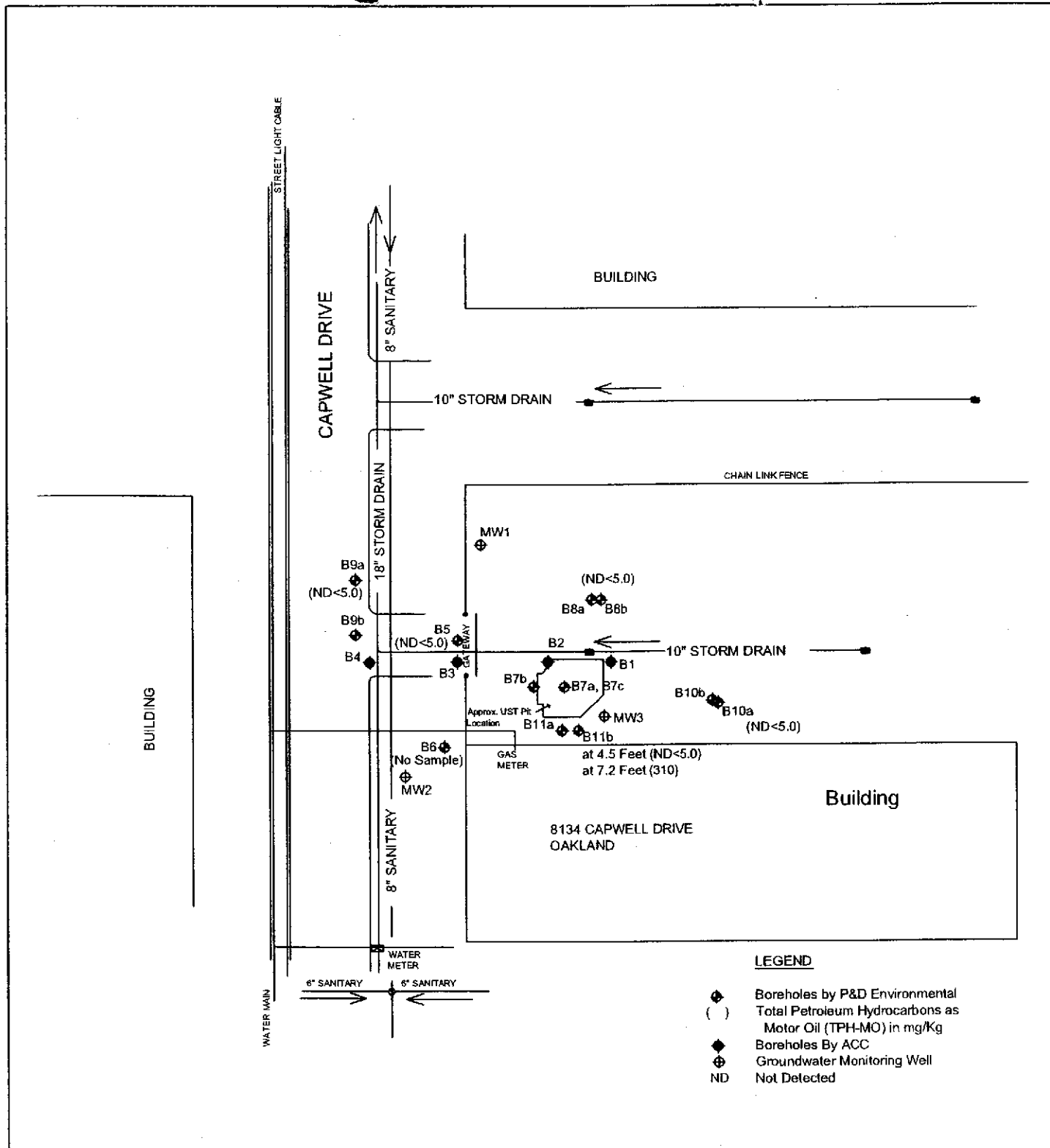


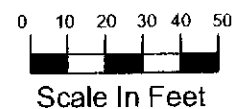
Figure 4  
 TPH-MO in Soil at 4.5 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
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 Feb. 14, 2005

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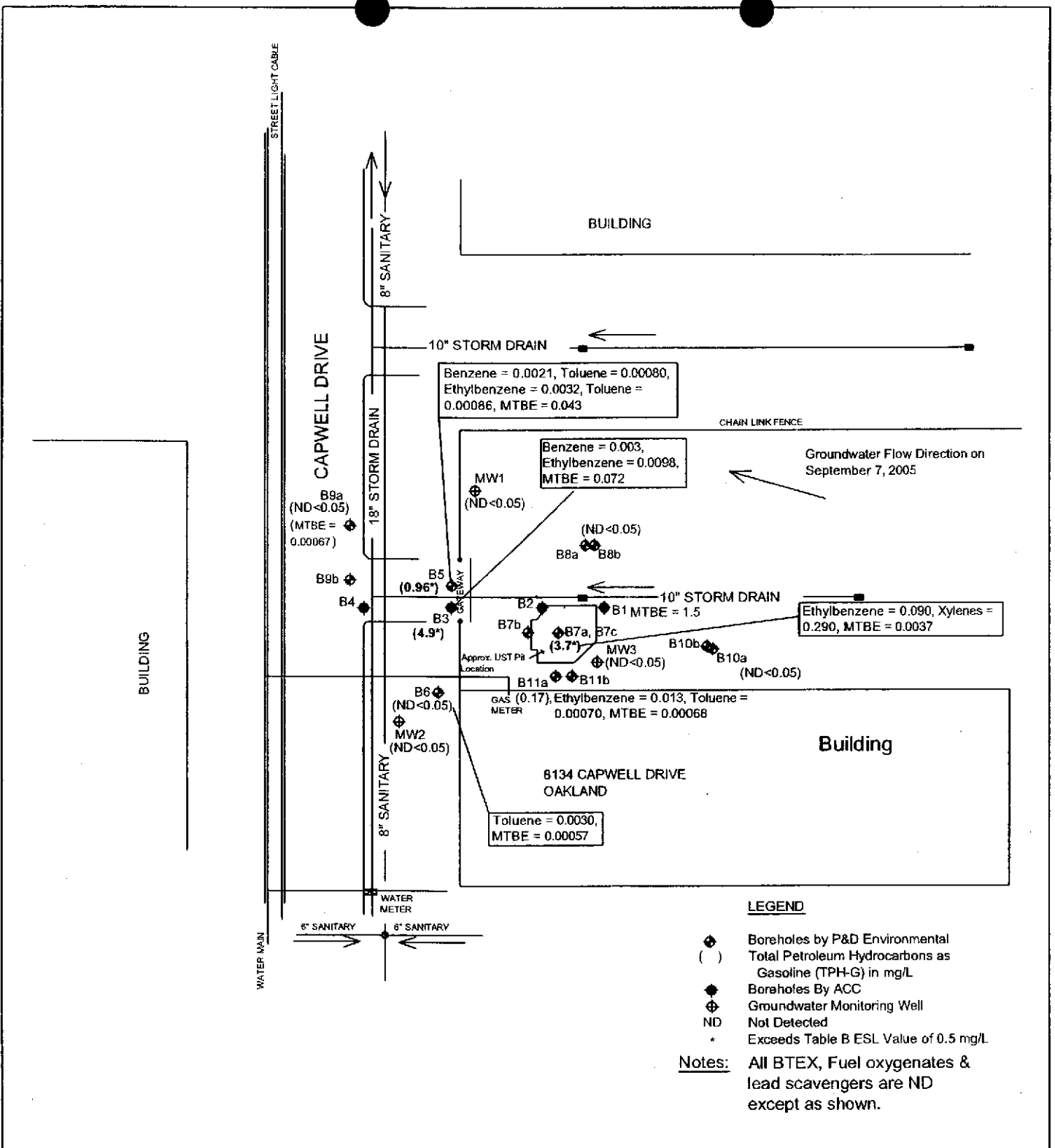
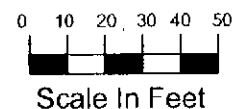


Figure 5  
 TPH-G in Shallow Groundwater at 8 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
 California Utility Surveys  
 Feb. 14, 2005

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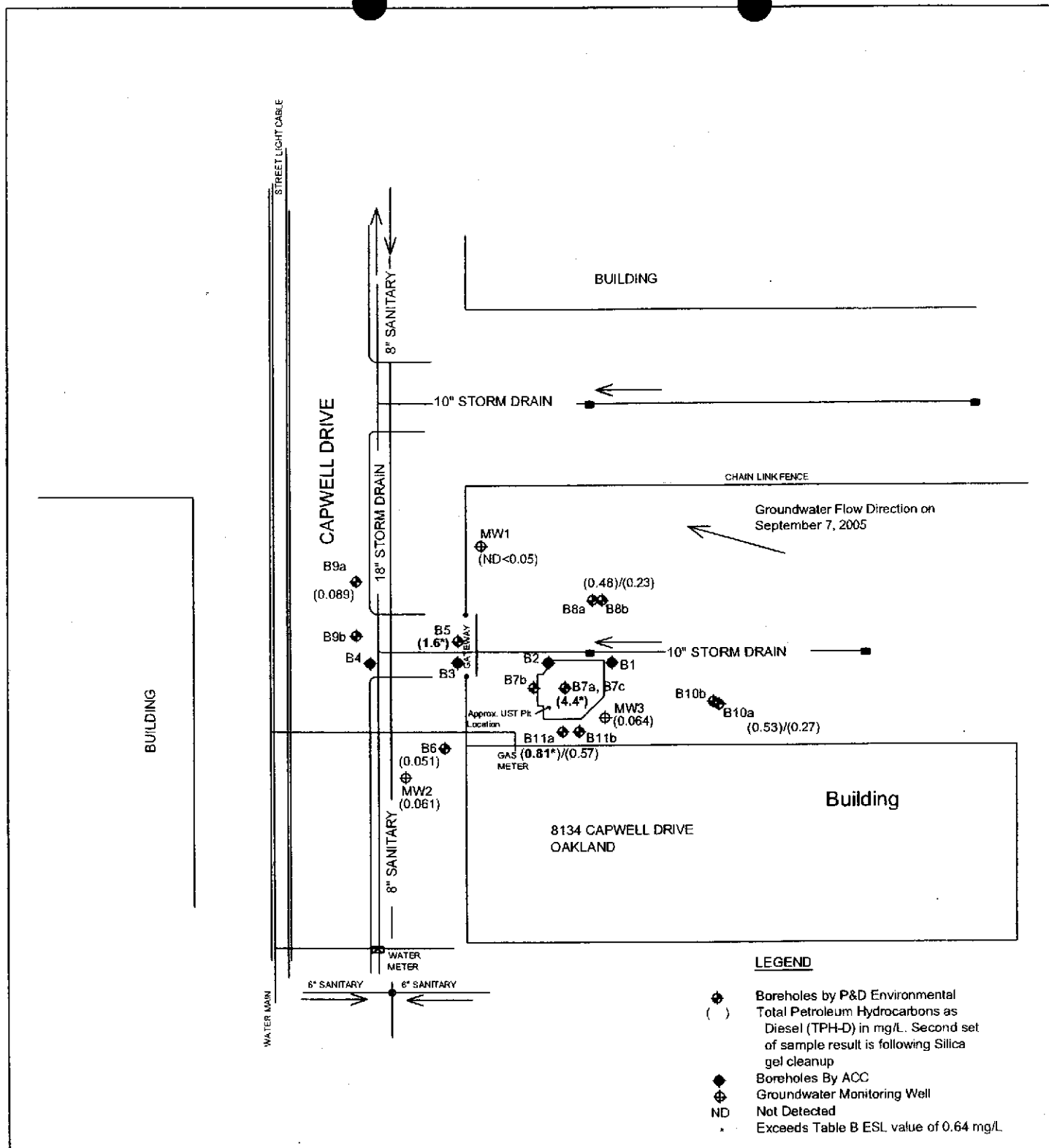
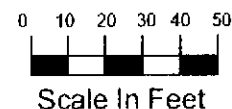


Figure 6  
 TPH-D in Shallow Groundwater at 8 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
 California Utility Surveys  
 Feb. 14, 2005

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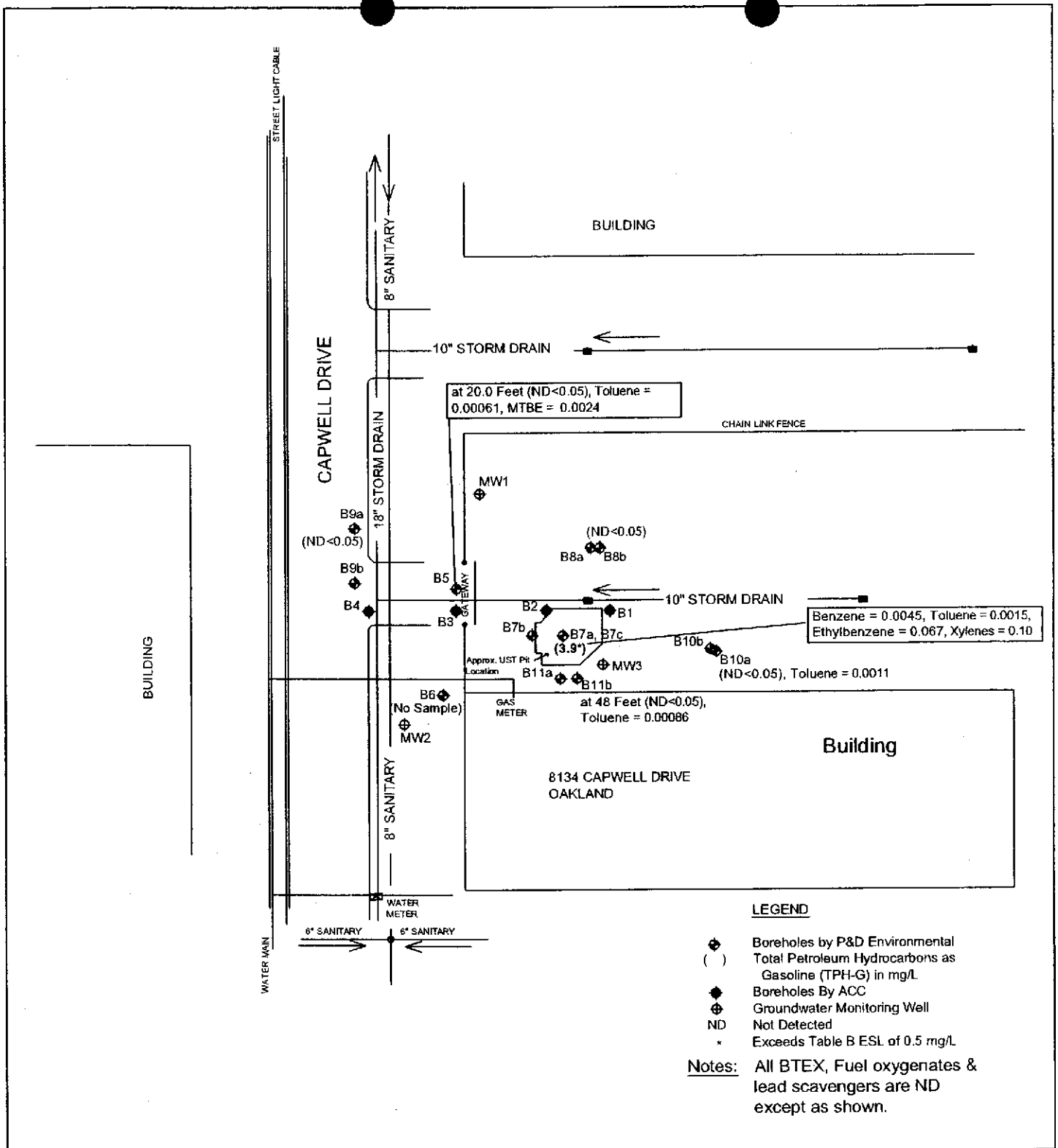


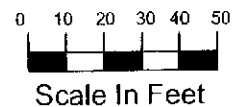
Figure 8  
 TPH-G in Deeper Groundwater at 26-28 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
 California Utility Surveys  
 Feb. 14, 2005

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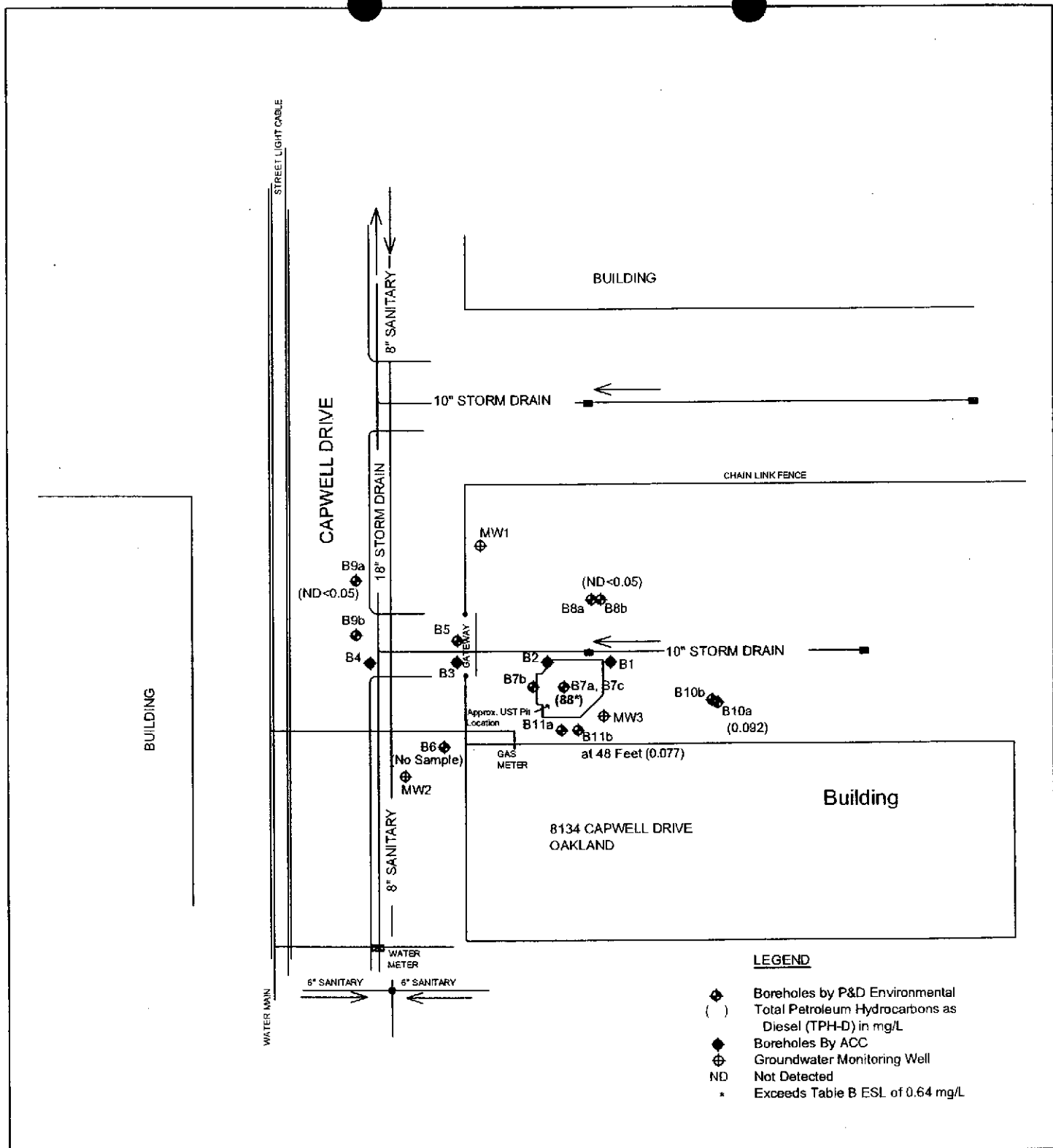


Figure 9  
 TPH-D in Deeper Groundwater at 26-28 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
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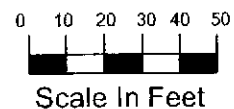


TABLE 1 - UST PIT SOIL SAMPLE ANALYTICAL RESULTS

Sample ID	TPHg mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Xylenes mg/kg	Fuel Oxygenates µg/kg					Lead mg/kg
						TBA	MTBE	DIPE	ETBE	TAME	
TDR-Pit-N	5,900	ND<6.2	8.3	66	420	ND<60	ND<60	ND<120	ND<60	ND<60	5.8
TDR-Pit-S	10	ND<0.62	ND<0.62	ND<0.62	ND<0.62	42	ND<36	ND<72	ND<36	ND<36	10
TDR-Pit-E	73	ND<0.62	ND<0.62	ND<0.62	ND<0.62	ND<46	ND<46	ND<92	ND<46	ND<46	ND<5.0
TDR-Pit-W	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	57	32	ND<10	ND<5.0	ND<5.0	6.1
TDR-NWall-1	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	6.7
TDR-NWall-2	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<18	ND<18	ND<35	ND<18	ND<18	5.6
ESL	400	0.38	9.3	13	1.5	110	5,600				750

Notes:

mg/kg = milligrams per kilogram  
 µg/kg = micrograms per kilogram  
 ND = Not Detected  
 TPHg = Gasoline  
 ESL = Environmental Screening Level established by San Francisco Bay Regional Water Quality Control Board (July 2003, Updated Feb 2004, Table B Shallow Soils (≤ 3m bgs) Groundwater is NOT a Current or Potential Source of Drinking Water.)

Fuel Oxygenates (by EPA 8260)  
 TBA = Tertiary Butyl Alcohol  
 MTBE = Methyl Tertiary Butyl Ether  
 DIPE = Di-Isopropyl Ether  
 ETBE = Ethyl Tertiary Butyl Ether  
 TAME = Tertiary Amyl Methyl Ether

TABLE 2 - UST PIT WATER SAMPLE ANALYTICAL RESULTS

Sample ID	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethyl-Benzene µg/L	Xylenes µg/L	Fuel Oxygenates µg/L					Lead mg/L
						TBA	MTBE	DIPE	ETBE	TAME	
TDR-Pit	99,000	220	500	1,500	14,000	ND<500	ND<500	ND<1,000	ND<500	ND<500	0.82
Pit-2	3,200	40	3.1	11	54	NA	ND<5.0	NA	NA	NA	0.037
ESL	500	46	130	290	13	18,000	1,800				0.0025

Notes:

µg/L = micrograms per liter  
 mg/L = milligrams per liter  
 ND = Not Detected  
 NA = Not Analyzed  
 TPHg = Gasoline

Fuel Oxygenates (by EPA 8260)

TBA = Tertiary Butyl Alcohol  
 MTBE = Methyl Tertiary Butyl Ether  
 DIPE = Di-Isopropyl Ether  
 ETBE = Ethyl Tertiary Butyl Ether  
 TAME = Tertiary Amyl Methyl Ether

ESL = Environmental Screening Level established by San Bay Francisco Regional Water Quality Control Board (July 2003, Updated Feb 2004, Table B Shallow Soils (≤ 3m bgs) Groundwater is NOT a Current or Potential Source of Drinking Water.)

Analytical results from the pit water sample collected after overexcavation (Pit-2) indicate a significant reduction in concentrations of TPHg and BTEX constituents when compared to the original water sample.

**Site Address:** 8134 Capwell Drive, Oakland, CA  
**Sampling Date:** 08/24/04

**Project Number:** 6520-001.01  
**Subsurface Soil Boring Report**

**TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS**

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
TDR-B1-4.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
TDR-B2-4.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.0098

*Notes:*

*Soil sample results are in milligrams per kilogram (mg/kg), approximately equal to parts per million (ppm)*

*< = analytical results under laboratory reporting limit*

**TABLE 2 - GRAB GROUNDWATER ANALYTICAL RESULTS**

Sample ID	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	MTBE
TDR-B1-W	<50	<0.50	<0.50	<0.50	<1.0	1.5
TDR-B3-W	4,900	3.0	<2.5	9.8	<5.0	72
TDR-B4-W	<50	<0.50	<0.50	<0.50	<1.0	<0.50

*Notes:*

*Water sample results are in micrograms per Liter (ug/L), approximately equal to parts per billion (ppb)*

*< = analytical results under laboratory reporting limit*

TABLE 4  
SUMMARY OF LABORATORY ANALYTICAL RESULTS -  
BOREHOLE SOIL SAMPLES  
(Samples Collected on April 26, 2005)

Sample Name	TPH-D	TPH-MO	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	Other VOCs By 8260
B5-4.5	2.9,c	ND<5.0	5.9,a,b	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
B5-10.0	1.4,d	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND except, MTBE = 0.021
B5-15.0	1.1,d	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND except, MTBE = 0.0052
B6-5.0	ND<1.0	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
B6-10.0	ND<1.0	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
B6-15.0	2.0,d	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
B7b-5.0	12,c,d	ND<5.0	86	ND<0.005	ND<0.005	0.038	0.014	ND
B7b-10.0	61,c,d	ND<25	160,a,b	ND<0.10	ND<0.10	3.6	5.0	ND
B7b-15.0	2.6,c	ND<5.0	4.5,a,b	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
B7b-19.5	4.4,c	ND<5.0	2.2,a,b	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
B7b-23.0	ND<1.0	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
B7b-27.5	ND<1.0	ND<5.0	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND
ESL <sub>1</sub>	500	1000	400	0.38	9.3	32	11	MTBE = 5.6

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-MO= Total Petroleum Hydrocarbons as Motor Oil.

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

VOCs = Volatile Organic Compounds.

ESL<sub>1</sub> = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB) updated February 2005, from Table B – Shallow Soils, Groundwater is not a current or potential source of drinking water (commercial/industrial land use only).

a = Laboratory analytical report note: heavier gasoline range compounds are significant, possibly aged gasoline.

b = Laboratory analytical report note: no recognizable pattern.

c = Laboratory analytical report note: gasoline range compounds are significant.

d = Laboratory analytical report note: diesel range compounds are significant; no recognizable pattern.

ND = Not detected.

Results are in mg/kg, unless otherwise indicated.



TABLE 5  
SUMMARY OF LABORATORY ANALYTICAL RESULTS -  
BOREHOLE GROUNDWATER GRAB SAMPLES  
(Samples Collected on April 26, 2005)

Sample Name	TPH-D	TPH-MO	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	Other VOCs By 8260
B5-8.0 Water	1.6,b,c,d	0.43	0.96	0.0021	0.00080	0.0032	0.00086	ND, except MTBE = 0.043
B5-20.0 Water	0.076,c,e	ND<0.25	ND<0.05	ND<0.0005	0.00061	ND<0.0005	ND<0.0005	ND, except MTBE = 0.0024
B6-8.0 Water	0.051,c,e	ND<0.25	ND<0.05	ND<0.0005	0.0030	ND<0.0005	ND<0.0005	ND, except MTBE = 0.00057
B7-8.0 Water	4.4,b,c,d	0.39	3.7	ND<0.0025	ND<0.0025	0.090	0.290	ND, except MTBE = 0.0037
B7-28.0 Water	88,b,c	ND<5.0	3.9,a	0.0045	0.0015	0.067	0.10	ND
ESL <sub>2</sub>	0.64	0.64	0.5	0.046	0.13	0.29	0.10	MTBE = 1.8

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-MO= Total Petroleum Hydrocarbons as Motor Oil.

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

VOCs = Volatile Organic Compounds.

ESL<sub>2</sub> = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated February 2005, from Table B - Shallow Soils, Groundwater is not a current or potential source of drinking water.

a = Laboratory analytical report note: heavier gasoline range compounds are significant, possibly aged gasoline.

b = Laboratory analytical report note: gasoline range compounds are significant.

c = Laboratory analytical report note: diesel range compounds are significant, no recognizable pattern.

d = Laboratory analytical report note: oil range compounds are significant.

e = Laboratory analytical report note: one to a few isolated peaks present.

ND = Not detected.

Results are in mg/L, unless otherwise indicated.

TABLE 6  
SUMMARY OF LABORATORY ANALYTICAL RESULTS -  
MONITORING WELL GROUNDWATER SAMPLES  
(Samples Collected June 6, 2005)

Sample Name	TPH-D	TPH-MO	TPH-G	Benzene	Toluene	Ethyl-benzene	Xylenes	Other VOCs By 8260
MW1	ND<0.05	ND<0.25	ND<0.05	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND
MW2	0.061,c	ND<0.25	ND<0.05	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND
MW3	0.064,c	ND<0.25	ND<0.05	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND
ESL <sub>2</sub>	0.64	0.64	0.5	0.046	0.13	0.29	0.10	MTBE = 1.8

NOTES:

TPH-D = Total Petroleum Hydrocarbons as Diesel.

TPH-MO= Total Petroleum Hydrocarbons as Motor Oil.

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

VOCs = Volatile Organic Compounds.

ESL<sub>2</sub> = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated February 2005, from Table B - Shallow Soils, Groundwater is not a current or potential source of drinking water.

c = Laboratory analytical report note: diesel range compounds are significant; no recognizable pattern.

ND = Not detected.

Results are in mg/L, unless otherwise indicated.

TABLE 4  
SUMMARY OF LABORATORY ANALYTICAL RESULTS -  
BOREHOLE GROUNDWATER GRAB SAMPLES

Sample Name	TPH-G	TPH-D/ TPH-D With SGC	TPH-MO/ TPH-MO With SGC	Benzene	Toluene	Ethyl- benzene	Xylenes	Other VOCs By 8260B
B8a-8.0, Water	ND<0.05	0.48,a,d/ 0.23,a,d	6.0/ 2.9	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005
B9a-8.0, Water	ND<0.05	0.089,a,d	0.41	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005, except MTBE = 0.00067
B10a-8.0, Water	ND<0.05	0.53,a,d/ 0.27,a,d	4.7/ 2.1	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005
B11a-8.0, Water	0.17, a	0.81,a,d/ 0.57,a,d,f	4.9/ 4.1	ND<0.0005	0.0007	0.013	ND<0.0005	ND<0.0005 except MTBE = 0.00068
B8b-28.0, Water	ND<0.05	ND<0.05	ND<0.25	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005
B9b-26.0, Water	ND<0.05	ND<0.05	ND<0.25	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005
B10b-27.0, Water	ND<0.05	0.092,d,a	0.39	ND<0.0005	0.0011	ND<0.0005	0.00054	ND<0.0005
B11b-48.0, Water	ND<0.05	0.077,a	ND<0.25	ND<0.0005	0.00086	ND<0.0005	ND<0.0005	ND<0.0005
ESL <sub>2</sub>	0.64	0.64	0.5	0.046	0.13	0.29	0.10	MTBE = 1.8

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

SGC = Silica Gel Cleanup performed to remove non-petroleum hydrocarbons.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil.

VOCs = Volatile Organic Compounds.

MTBE = Methyl-butyl ether

ESL<sub>2</sub> = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB) updated February 2005, from Table B – Shallow Soils, Groundwater is not a current or potential source of drinking water.

a = Laboratory analytical report note: heavier gasoline range compounds are significant, possibly aged gasoline.

b = Laboratory analytical report note: diesel range compounds are significant; no recognized pattern.

c = Laboratory analytical report note: no recognizable pattern.

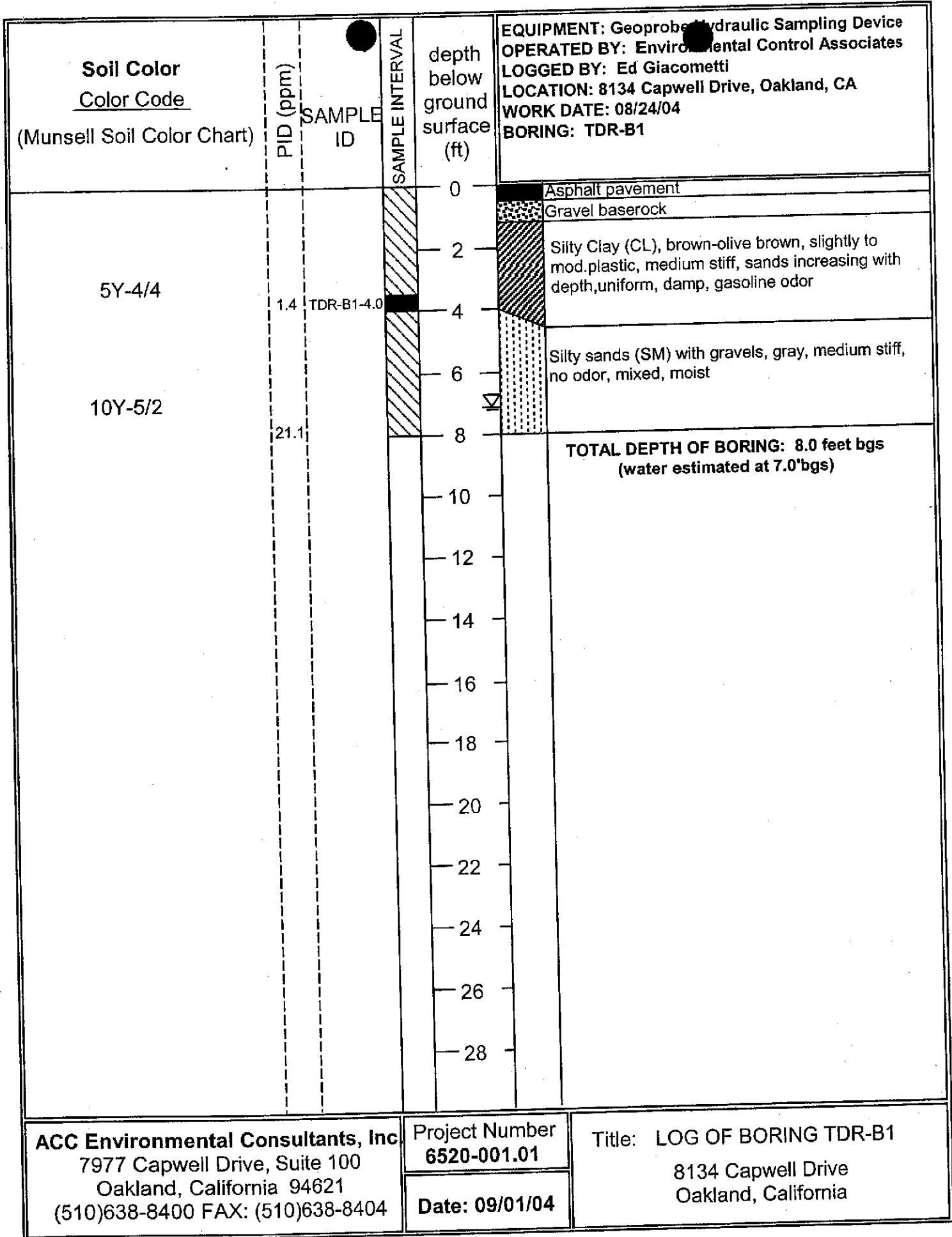
d = Laboratory analytical report note: strongly aged gasoline or diesel range compounds are significant.

e = Laboratory analytical report note: oil range compounds are significant.

f = Laboratory analytical report note: gasoline range compounds are significant

ND = Not detected.

Results are in mg/L, unless otherwise indicated.



**ACC Environmental Consultants, Inc.**  
 7977 Capwell Drive, Suite 100  
 Oakland, California 94621  
 (510)638-8400 FAX: (510)638-8404

Project Number  
**6520-001.01**

Date: **09/01/04**

Title: **LOG OF BORING TDR-B1**  
 8134 Capwell Drive  
 Oakland, California

**Soil Color**  
**Color Code**  
 (Munsell Soil Color Chart)

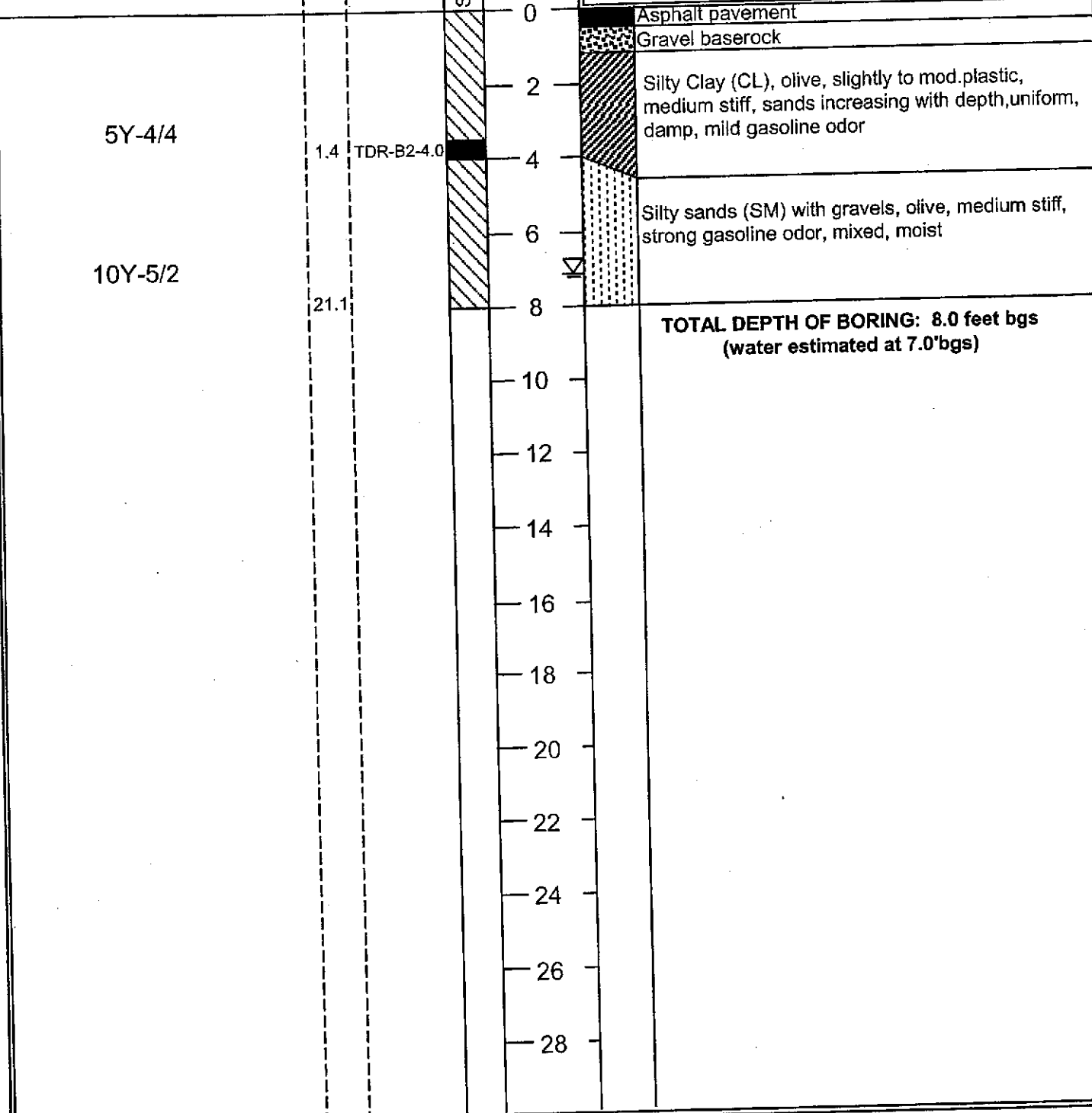
**PID (ppm)**

**SAMPLE ID**

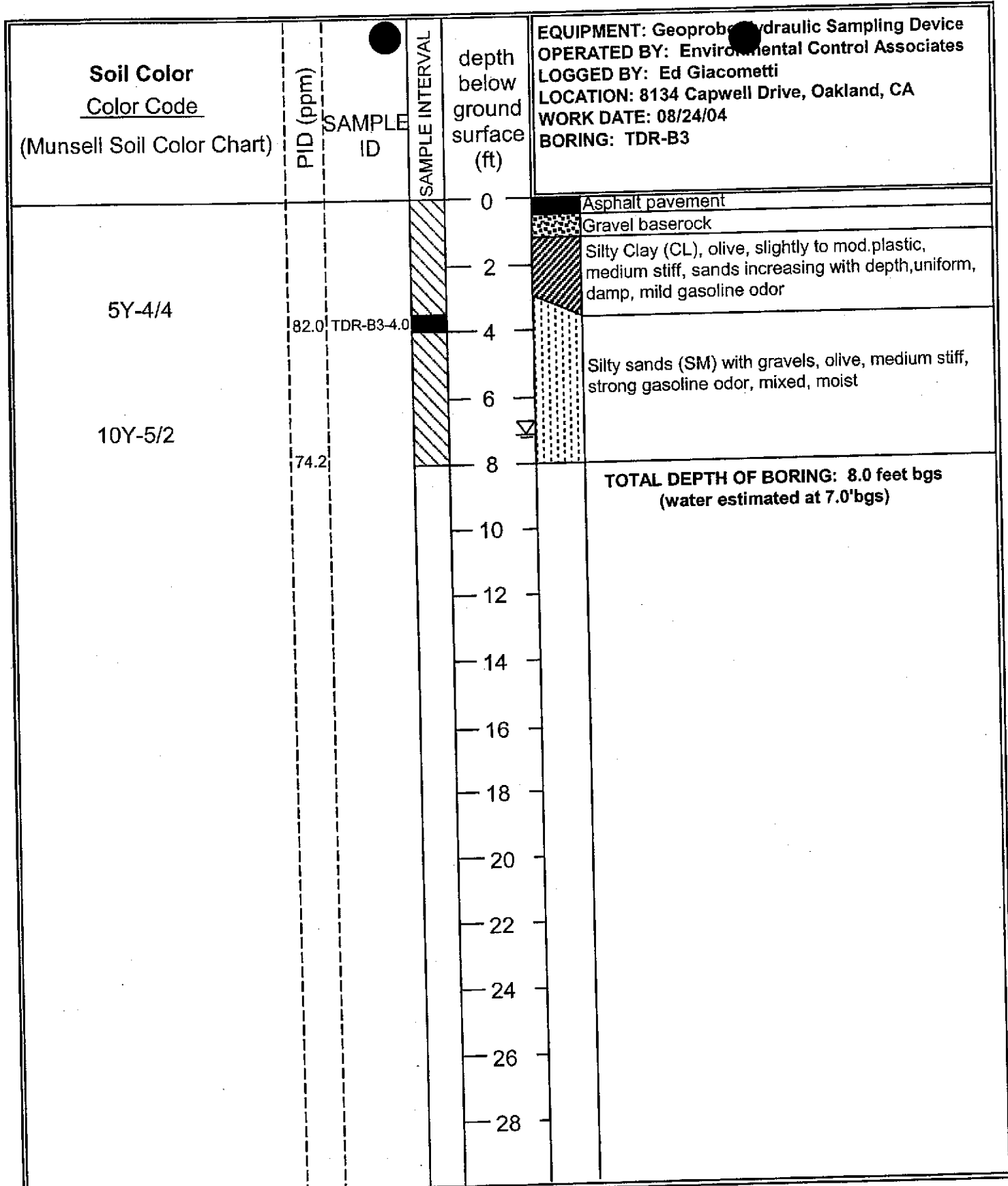
**SAMPLE INTERVAL**

**depth below ground surface (ft)**

**EQUIPMENT: Geoprobe Hydraulic Sampling Device**  
**OPERATED BY: Environmental Control Associates**  
**LOGGED BY: Ed Giacometti**  
**LOCATION: 8134 Capwell Drive, Oakland, CA**  
**WORK DATE: 08/24/04**  
**BORING: TDR-B2**



<b>ACC Environmental Consultants, Inc</b> 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	<b>Project Number</b> <b>6520-001.01</b>	<b>Title: LOG OF BORING TDR-B2</b>  8134 Capwell Drive Oakland, California
	<b>Date: 09/01/04</b>	



<b>ACC Environmental Consultants, Inc.</b> 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	<b>Project Number</b> <b>6520-001.01</b>	<b>Title: LOG OF BORING TDR-B3</b> 8134 Capwell Drive Oakland, California
<b>Date: 09/01/04</b>		

Soil Color Color Code (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Geoprobe Hydraulic Sampling Device OPERATED BY: Environmental Control Associates LOGGED BY: Ed Giacometti LOCATION: 8134 Capwell Drive, Oakland, CA WORK DATE: 08/24/04 BORING: TDR-B4
				0	Asphalt pavement
					Gravel baserock
5Y-4/4	1.8	TDR-B4-4.0		2	Silty Clay (CL), olive, slightly to mod.plastic, medium stiff, sands increasing with depth, uniform, damp, mild gasoline odor
				4	
				6	Silty sands (SM) with gravels, olive, medium stiff, strong gasoline odor, mixed, moist
10Y-5/2	22.0			8	
				10	
				12	
				14	
				16	
				18	
				20	
				22	
				24	
				26	
				28	
					TOTAL DEPTH OF BORING: 8.0 feet bgs (water estimated at 7.0'bgs)

<b>ACC Environmental Consultants, Inc</b> 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404	Project Number <b>6520-001.01</b> <hr/> Date: 09/01/04	Title: LOG OF BORING TDR-B4 8134 Capwell Drive Oakland, California
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BORING NO.: B5/B5a		PROJECT NO.: 0363		PROJECT NAME: T.D. Rowe, Oakland		
BORING LOCATION: North side of driveway		ELEVATION AND DATUM: NONE				
DRILLING AGENCY: Vironex, Inc		DRILLER: Brandon		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe 5400				4/26/05	4/26/05	
COMPLETION DEPTH: 20.0 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 4.5 FEET		NO. OF SAMPLES: 4 soil, 2 water		WRW		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	4 in. Asphalt	FILL	No Well Constructed		0.0	Borehole B5 continuously cored using a 4-foot long 2-inch O.D. Geoprobe Macro-core barrel sampler. Samples collected in 4-foot intervals. The sampler was lined with 4-foot long 1 3/4-inch O.D. cellulose acetate tubes. First water encountered in borehole B5 at 4.5 ft. below the ground surface, 8:30am.
	0.3 to 0.6 ft. Light brown sandy silt (FILL); medium stiff, dry. No Petroleum Hydrocarbon (PHC) odor.	CL		0.0		
	0.6 to 3.2 ft. Gray gravelly clay (CL); medium stiff, moist. Orange and white mottling. No PHC odor			0.0		
5	3.2 to 10.0 ft. Gray sand (SP); medium dense, moist. No PHC odor. Saturated below 4.5 ft.	SP		0.0		
10	10.0 to 11.5 ft. Gray clayey sand (SC); very loose, saturated. Possible oily odor, but no gasoline or diesel odor	SC		0.0		
	11.5 to 12.0 ft. Black and orange organic clay (OH); soft, moist. Abundant rootlets. Very sulfurous odor. No PHC odor.	OH		1		
15	12.0 to 20.0 ft. Gray clay (BAY MUD); very loose, saturated. Sulfurous odor. No PHC odor.	BAY MUD		0.0		
			0.0			
20	First water sample collected in continuous-cored borehole B5 open to 8.0 ft. by placing temporary slotted PVC casing in the borehole and using polyethylene tubing with a stainless steel foot valve. Following water sample collection the temporary PVC casing was removed and drilling resumed.					Borehole terminated at 20.0 feet. Borehole grouted 4/26/05 using neat cement.
25	Following completion of drilling in borehole B5 a borehole designated as B5a was drilled approximately 1.5 feet from borehole B5 and a Hydropunch was set at the 16 to 20-foot interval. The water sample was collected from the Hydropunch using polyethylene tubing with a stainless steel foot valve and was designated as B5-20-Water.					
30	No PHC odor or sheen were detected in either water sample.					



BORING NO.: B6/B6a		PROJECT NO.: 0363		PROJECT NAME: T.D. Rowe, Oakland		
BORING LOCATION: South side of driveway			ELEVATION AND DATUM: NONE			
DRILLING AGENCY: Vironex, Inc		DRILLER: Brandon		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe 5400				4/26/05	4/26/05	
COMPLETION DEPTH: 20.0 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 6.3 FEET		NO. OF SAMPLES: 4 soil, 1 water		WRW		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
0.0 to 6.3 ft.	Orangish brown clayey, gravelly sand (SC); dense, slightly moist. No Petroleum Hydrocarbon (PHC) odor.	SC	No Well Constructed		0.0	Borehole B6 continuously cored using a 4-foot long 2-inch O.D. Geoprobe Macro-core barrel sampler. Samples collected in 4-foot intervals. The sampler was lined with 4-foot long 1 3/4-inch O.D. cellulose acetate tubes. First water encountered in B6 at 6.3 feet, 11:00am.
6.3 to 9.5 ft.	Gray sand (SP); loose, saturated. No PHC odor.	SP			0.0	
9.5 to 10.2 ft.	Gray clay (CL); soft, saturated. No PHC odor	CL			0.0	
10.2 to 11.0 ft.	Orange Organic clay (OH); soft, wet. No PHC odor	OH			0.0	Borehole B6a drilled at a horizontal distance of 1.5 feet from borehole B6 by pushing a Hydropunch to 20 feet and pulling back the rods to expose Hydropunch screen from 16 to 20 foot depth. No water entered into the Hydropunch after waiting 1/2 hour. No water sample collected.
11.0 to 20.0 ft.	Gray clay (BAY MUD); very soft, saturated. No PHC odor.	BAY MUD			0.0	
20.0 ft.	First water sample collected in continuous-cored borehole B6 open to 8.0 ft. by placing temporary slotted PVC casing in the borehole and using polyethylene tubing with a stainless steel foot valve. No PHC odor or sheen were detected in the water sample. Following water sample collection the temporary PVC casing was removed and drilling resumed.					Borehole terminated at 20.0 feet. Borehole grouted 4/26/05 using neat cement.
25.0 ft.	Following completion of drilling in borehole B6 a borehole designated as B6a was drilled approximately 1.5 feet from borehole B6 and a Hydropunch was set at the 16 to 20-foot interval. No water entered the Hydropunch and no water sample was collected.					
30.0 ft.						

BORING NO.: B7b		PROJECT NO.: 0383		PROJECT NAME: T.D. Rowe, Oakland		
BORING LOCATION: Approx. 1 ft. west of sawcut for UST pit.			ELEVATION AND DATUM: NONE			
DRILLING AGENCY: Vironex, Inc		DRILLER: Brandon		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe 5400				4/26/05	4/26/05	
COMPLETION DEPTH: 28.0 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 6.1 FEET		NO. OF SAMPLES: 6 soil, 0 water		WRW		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	4 in. Asphalt	FILL	No Well Constructed		PID not working.	Borehole B7b continuously cored using a 4-foot long 2-inch O.D. Geoprobe Macrocore barrel sampler. Samples collected in 4-foot intervals. The sampler was lined with 4-foot long 1 3/4 inch O.D. cellulose acetate tubes.  90% recovery from 0-4 ft. 60% recovery from 4-8 ft.  9.5 to 9.8 ft. sand layer with strong PHC sheen and odor.  First water encountered at approx. 10.3 ft., 1:30pm.  20% recovery from 8-12 ft.  20% recovery from 12-16 ft.  20% recovery from 16-20 ft.  60% recovery from 20-24 ft. (barrel jammed) 80% recovery from 24-28 ft. (60% slough)  No water sample collected from borehole (see B7a/B7c boring log).  Borehole B7a, in UST pit, used for collection of water sample at 8.0 feet (no soil recoverable). Borehole B7b, adjacent to western edge of UST pit, used for collection of soil samples to 28.0 feet. Borehole B7c, in UST pit, used for collection of water sample at 28.0 feet.
0.3 to 1.0 ft.	Light brown sand (FILL); medium dense, slightly moist. No PHC odor	CL				
1.0 to 2.5 ft.	Gray silty clay (CL); very stiff, slightly moist. Slight PHC odor.	GC				
2.5 to 3.7 ft.	Light brown sandy clayey gravel (GC); slightly moist. No PHC odor.	CL				
3.7 to Est. 9.0 ft.	Black and gray silty clay (CL); stiff, moist. Strong PHC odor.					
Est. 9.0 to 10.3 ft.	Black clayey sand (SC); loose, saturated. Strong PHC odor and sheen.	<SC				
Est. 10.3 to 13 ft.	Gray fine sand (SP); medium dense, wet. Moderate PHC odor.	SP				
Est. 13 to 21 ft.	Gray clay (BAY MUD); stiff, wet. No PHC odor. (13 to 18 ft. Black colored + strong PHC odor) (18 to 21 ft. Gray colored + moderate to slight PHC odor)	BAY MUD				
Est. 21 to 27 ft.	Brown sandy gravel (GP); saturated. Possible slight PHC odor (odor observed by driller but not by P&D).	GP				
27 to 28 ft.	Brown fine sand (SP); loose, saturated. No PHC odor.	SP				
						Borehole terminated at 28.0 feet. Borehole grouted 4/26/05 using neat cement.

BORING NO.: B7a/B7c PROJECT NO.: 0363		PROJECT NAME: T.D. Rowe, Oakland	
BORING LOCATION: Former UST pit		ELEVATION AND DATUM: NONE	
DRILLING AGENCY: Vironex, Inc		DRILLER: Brandon	DATE & TIME STARTED: 4/26/05
DRILLING EQUIPMENT: Geoprobe 5400			DATE & TIME FINISHED: 4/26/05
COMPLETION DEPTH: 28.0 FEET		BEDROCK DEPTH: None encountered	LOGGED BY: WRW
FIRST WATER DEPTH: 5.0 FEET		NO. OF SAMPLES: 0 soil, 2 water	CHECKED BY:

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
0.3 to 4.0	4 in. Asphalt For borehole B7a 0.3 to 4.0 ft. Light gray sandy, silty gravel (FILL); medium dense, dry. No Petroleum Hydrocarbon (PHC) odor.	FILL	No Well Constructed		0.0	Borehole B7a attempted as continuous core using a 4-foot long 2-inch O.D. Geoprobe Macrocore barrel sampler. The sampler was lined with 4-foot long 1 3/4-inch O.D. cellulose acetate tubes.
4.0 to 8.0	No recovery of soil from 4.0 to 8.0 ft. interval in borehole B7a drilled to 8.0 ft. Total depth of borehole B7a = 8.0 ft.					Borehole B7a collapsed to 2.5 ft. each time Macrocore tools removed from borehole. No recovery of soil from 4.0 to 8.0 ft. interval in B7a.
8.0 to 28.0	Hydropunch only to 28.0 ft. for borehole B7c.					Water sample collected at 8.0 ft. in B7a using hydropunch with polyethylene tubing and stainless steel foot valve.  Borehole B7c subsequently drilled for additional groundwater sample collection. No water encountered in borehole B7c hydropunched to 20.0 feet, approx. 12:10pm. Tools removed and new borehole B7c hydropunched to 28.0 feet, approx. 2:00pm. Water sample collected at 28.0 ft. using hydropunch and polyethylene tubing with stainless steel foot valve. (water depth not measured in deepest hydropunch).
28.0 to 30.0						Borehole B7a drilled in UST pit, used for collection of water sample at 8.0 feet (no soil recoverable in borehole). Borehole B7b drilled adjacent to western edge of UST pit, used for collection of soil samples to 28.0 feet. Borehole B7c drilled in UST pit, used for collection of water sample at 28.0 feet.
30.0						Boreholes B7a and B7c grouted 4/26/05 using neat cement.

# P&D ENVIRONMENTAL, INC.

BORING NO.: B8a	PROJECT NO.: 0363	PROJECT NAME: T.D. Rowe, Oakland
BORING LOCATION: North of UST Pit	ELEVATION AND DATUM: NONE	
DRILLING AGENCY: Vironex, Inc	DRILLER: Kurt and Kyle	DATE & TIME STARTED: 9/6/05
DRILLING EQUIPMENT: Geoprobe 6610 DT Track Rig		DATE & TIME FINISHED: 9/6/05
COMPLETION DEPTH: 10.0 FEET	BEDROCK DEPTH: None encountered	LOGGED BY: WRW
FIRST WATER DEPTH: 5.0 FEET	NO. OF SAMPLES: 1 soil, 1 water	CHECKED BY:

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	2 in. Asphalt Est. 6 in. Baserock		No Well Constructed		0	Borehole continuously cored using a 5-ft. long 2.5-in. O.D. Geoprobe Macrocore barrel sampler. Samples collected in 5 ft. intervals. The sampler was lined with 5-ft. long, 2-in. O.D. cellulose acetate tubes. First water encountered at approx. 5.0 ft. during drilling. Water measured at 3.9 ft., 10:30am approx. 5 min. after completion of drilling.
	8 in. to 2.4 ft. Medium brown silty sand (FILL); loose, dry. No Petroleum Hydrocarbon (PHC) odor.	FILL			0	
	2.4 to 3.8 ft. Grayish black gravelly silt (FILL); medium stiff, slightly moist. No PHC odor.		< CL		0	
	3.8 to 5.0 ft. Gray sandy clay (CL); soft, moist. Orange mottling. No PHC odor.				0	
	5.0 to est. 8.0 ft. Dark gray sand (SP); loose, saturated. No PHC odor.	SP			0	
	8.0 to 10.0 ft. Dark gray gravelly sand (SW); gravel < 3/4 in. diam., loose, saturated. No PHC odor, but slight sulfurous odor.	SW			0	
						Borehole terminated at 10.0-ft. depth, 9/6/05. 1-in. diam. PVC casing set in borehole and water sample collected using polyethylene tubing and a stainless steel foot valve. No PHC sheen or odor on water sample.
						Borehole tremie grouted with neat cement and an asphalt cold-patch surface seal, 9/6/05.

# P&D ENVIRONMENTAL, INC.

BORING NO.: B9a		PROJECT NO.: 0363		PROJECT NAME: T.D. Rowe, Oakland	
BORING LOCATION: Edge of Street, SW of Pit			ELEVATION AND DATUM: NONE		
DRILLING AGENCY: Vironex, Inc		DRILLER: Kurt and Kyle		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Geoprobe 6610 DT Track Rig				9/6/05	9/6/05
COMPLETION DEPTH: 10.0 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: 8.5 FEET		NO. OF SAMPLES: 1 soil, 1 water		WRW	

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	3 in. Asphalt Est. 6 in. Baserock 8 in. to 3.0 ft. Reddish brown silty gravel (FILL); dry. No Petroleum Hydrocarbon (PHC) odor.	FILL	No Well Constructed		0	Borehole continuously cored using a 5-ft. long 2.5-in. O.D. Geoprobe Macrocore barrel sampler. Samples collected in 5-ft. intervals. The sampler was lined with 5-ft. long, 2-in. O.D. cellulose acetate tubes. First water encountered at 8.5 ft. during drilling. Water measured at 4.9 ft. approx. 11:00 am approx. 5 min. after completion of drilling.
5	3.0 to 8.5 ft. Gray silty clay (CL); medium stiff, moist. Orange mottling. No PHC odor.	CL ▼			0	
10	8.5 to 10.0 ft. gray sand (SW); loose, saturated. No PHC odor.	SW ▽			0	
15						Borehole terminated at 10.0-ft. depth, 9/6/05. 1-in. diam. PVC casing set in borehole and water sample collected using polyethylene tubing and a stainless steel foot valve. No PHC sheen or odor on water sample.
20						Borehole termie grouted with neat cement and an asphalt cold-patch surface seal, 9/6/05.
25						
30						

BORING NO.: B10a		PROJECT NO.: 0363		PROJECT NAME: T.D. Rowe, Oakland		
BORING LOCATION: Northeast of former UST Pit				ELEVATION AND DATUM: NONE		
DRILLING AGENCY: Vironex, Inc		DRILLER: Kurt and Kyle		DATE & TIME STARTED:	DATE & TIME FINISHED:	
DRILLING EQUIPMENT: Geoprobe 6610 DT Track Rig				9/6/05	9/6/05	
COMPLETION DEPTH: 10.0 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:	
FIRST WATER DEPTH: 8.9 FEET		NO. OF SAMPLES: 1 soil, 1 water		WRW		
DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	2 in. Asphalt Est. 6 in. Baserock	FILL	No Well Constructed		0	Borehole continuously cored using a 5-ft. long 2.5-in. O.D. Geoprobe Macrocore barrel sampler. Samples collected in 5-ft. intervals. The sampler was lined with 5-ft. long, 2-in. O.D. cellulose acetate tubes. First water encountered at 8.9 ft. during drilling. Water measured at 4.0 ft., 11:15am approx. 5 min. after completion of drilling.
	8 in. to 1.7 ft. Light brown gravelly sand (FILL); loose, moist. No Petroleum Hydrocarbon (PHC) odor.	CL		0		
	1.7 to 3.4 ft. Gray silty clay (CL); medium stiff, moist. No PHC odor.	CL		0		
5	3.4 to 8.9 ft. Gray sandy gravelly clay (CL); medium stiff to soft, moist. Orange mottling. No PHC odor.	CL		0		
	8.9 to 9.9 ft. Gray and light gray gravelly sand (SW); loose, saturated. No PHC odor.	SW		0		
	9.9 to 10.0 ft. Gray sandy silt (ML); loose, saturated. No PHC odor.	ML				Borehole terminated at 10.0-ft. depth, 9/6/05. 1-in. diam. PVC casing set in borehole and water sample collected using polyethylene tubing and a stainless steel foot valve. No PHC sheen or odor on water sample.
15						Borehole tremie grouted with neat cement and an asphalt cold-patch surface seal, 9/6/05.
20						
25						
30						

# P&D ENVIRONMENTAL, INC.

BORING NO.: B11a		PROJECT NO.: 0363		PROJECT NAME: T.D. Rowe, Oakland	
BORING LOCATION: Between building and former UST Pit				ELEVATION AND DATUM: NONE	
DRILLING AGENCY: Vironex, Inc		DRILLER: Kurt and Kyle		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Geoprobe 6610 DT Track Rig				9/6/05	9/6/05
COMPLETION DEPTH: 10.0 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: 7.0 FEET		NO. OF SAMPLES: 2 soil, 1 water		WRW	

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
0	2 in. Asphalt Est. 6 in. Baserock	FILL	No Well Constructed		0	Borehole continuously cored using a 5-ft. long 2.5-in. O.D. Geoprobe Macrocore barrel sampler. Samples collected in 5-ft. intervals. The sampler was lined with 5-ft. long, 2-in. O.D. cellulose acetate tubes. First water encountered at 7.0 ft. during drilling. Water measured at 3.9 ft., 11:55am approx. 5 min. after completion of drilling.
5	8 in. to 3.7 ft. White and brown silty gravelly sand (FILL); gravel < 1 in. diam., loose, slightly moist. No PHC odor.	▽			0	
5	3.7 to 7.0 ft. Brown and gray sand gravelly clay (CL); gravel < 1 in. diam., very stiff, moist. Orange mottling. No PHC odor from 3.7 to 6.5 ft. Moderate PHC odor from 6.5 to 7.0 ft.	X CL			0	
10	7.0 to 10.0 ft. Gray sand (SP); loose, saturated. Strong PHC odor from 7.0 to 8.0 ft. Moderate PHC odor from 8.0 to 10.0 ft.	X SP			0	
15						Borehole terminated at 10.0-ft. depth. 1 in. diam. PVC casing set in borehole and water sample collected using polyethylene tubing and a stainless steel foot valve. Slight PHC odor but no sheen on water sample.  Borehole termie grouted with neat cement and an asphalt cold-patch surface seal, 9/6/05.
20						
25						
30						

BORING NO.: MW1		PROJECT NO.: 0363		PROJECT NAME: TD Rowe, Oakland	
BORING LOCATION: NW Corner of parking lot			ELEVATION AND DATUM: NONE		
DRILLING AGENCY: Exploration Geoservices		DRILLER: David Yeager & Chris		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Mobile B61				5/17/05	5/17/05
COMPLETION DEPTH: 12 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: Approx. 6 FEET		NO. OF SAMPLES: 2 Soil		WRW	

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	2 inch Asphalt	FILL	See Well Construction Diagram			Borehole drilled with 7 1/2 in. O.D. hollow stem auger. Samples collected with a CA-Modified, split spoon sampler driver by 140 lb hammer falling 40 in.
5	2 in. to 5.9 ft. Medium brown silty sand (SM); loose, moist. No PHC odor.	SM		2 3 5	0 0	
	5.9 to 10.6 ft. Gray clayey sand (SC); loose, wet to saturated. No PHC odor (Sulfurous odor from 10.5 to 11.5 ft.)	SC				
10	10.6 to 12.0 ft Gray silty clay (BAY MUD); very soft, wet. Orange mottling & decaying vegetation. No PHC odor. (Strong sulfurous odor)	BAY MUD	2 1 1	0 0 12		
15						Borehole terminated at 12.0 ft
20						
25						
30						



BORING NO.: MW2		PROJECT NO.: 0363		PROJECT NAME: TD Rowe, Oakland	
BORING LOCATION: Near Capwell Drive, South of driveway				ELEVATION AND DATUM: NONE	
DRILLING AGENCY: Exploration Geoservices		DRILLER: David Yeager & Chris		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Mobile B61				5/17/05	5/17/05
COMPLETION DEPTH: 12 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: Approx. 6 FEET		NO. OF SAMPLES: 2 Soil		WRW	

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
5	0 to 5.9 ft. Brown silty sand (SM); loose, moist No PHC odor	SM	See Well Construction Diagram	2 3 5	0 0 0	Borehole drilled with 7 1/2 in. O.D. hollow stem auger. Samples collected with a CA-Modified, split spoon sampler driver by 140 lb hammer falling 40 in.
	5.9 to 9.5 ft. Gray clayey sand (SC); loose, wet to saturated. No PHC odor.	SC				
10	9.5 to 12.0 ft Gray silty clay (BAY MUD); very soft, wet. Orange mottling & decaying Vegetation. No PHC odor.	BAY MUD		1 1 1	0 0 0	
15						Borehole terminated at 12.0 ft
20						
25						
30						

BORING NO.: MW3		PROJECT NO.: 0363		PROJECT NAME: TD Rowe, Oakland	
BORING LOCATION: Approx. 1 ft., SE of former UST pit			ELEVATION AND DATUM: NONE		
DRILLING AGENCY: Exploration Geoservices		DRILLER: David Yeager & Chris		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Mobile B61				5/17/05	5/17/05
COMPLETION DEPTH: 12 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: Approx. 5.5 FEET		NO. OF SAMPLES: 2 Soil		WRW	

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
5	2 inch Asphalt 2 in. to 5.4 ft. Medium brown silty sand (SM); loose, moist. No PHC odor.	FILL SM	See Well Construction Diagram	5 3 3	0 0 0	Borehole drilled with 7 1/2 in. O.D. hollow stem auger. Samples collected with a CA-Modified, split spoon sampler driver by 140 lb hammer falling 40 in.
	5.4 to ? ft. Gray clayey sand (SC); loose, wet. Moderate diesel odor. Oily sheen	SC				
10	? to 12.0 ft Gray clay (BAY MUD); very soft, wet. No PHC odor.	BAY MUD				
15						
20						
25						
30						

# B & D ENVIRONMENTAL

A Division of Paul H. King, Inc.

55 Santa Clara Avenue, Suite 240

Oakland, CA 94610

(510) 658-6916

## WELL CONSTRUCTION DIAGRAM

PROJECT NUMBER 0363

BORING/WELL NO. MW1

PROJECT NAME TD Rowe, Oakland

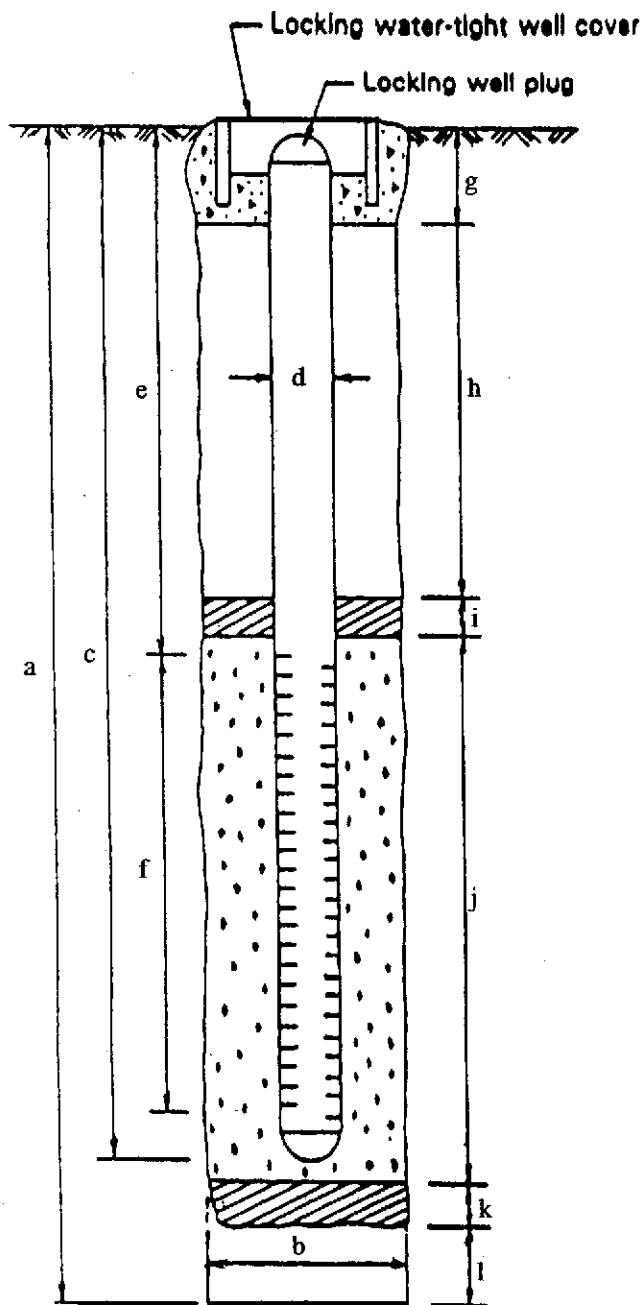
TOP OF CASING ELEV. See attached

COUNTY Alameda

GROUND SURFACE ELEVATION See attached

WELL PERMIT NO. W04-0452

DATUM See attached



### EXPLORATORY BORING

- a. Total depth 12 ft.  
b. Diameter 7.5 in.  
Drilling method Hollow Stem Auger

### WELL CONSTRUCTION

- c. Casing length 11.5 ft.  
d. Material Schedule 40 PVC  
d. Diameter 2 in.  
e. Depth to top of perforations 4 ft.  
f. Perforated length 7.5 ft.  
Perforated interval from 4 to 11.5 ft.  
Perforation type factory slot  
Perforation size 0.010 in.  
g. Surface sanitary seal 1 ft.  
Seal material concrete  
h. Sanitary seal 1 ft.  
Seal material neat cement  
i. Filter pack seal 1 ft.  
Seal material Bentonite pellet  
j. Filter pack length 9 ft.  
Filter pack interval from 3 to 12 ft.  
k. Pack material #2/12 RMC Pacific sack sand  
l. Bottom seal 0 ft.  
Seal material None  
i. Sluff in bottom of borehole 0 ft.

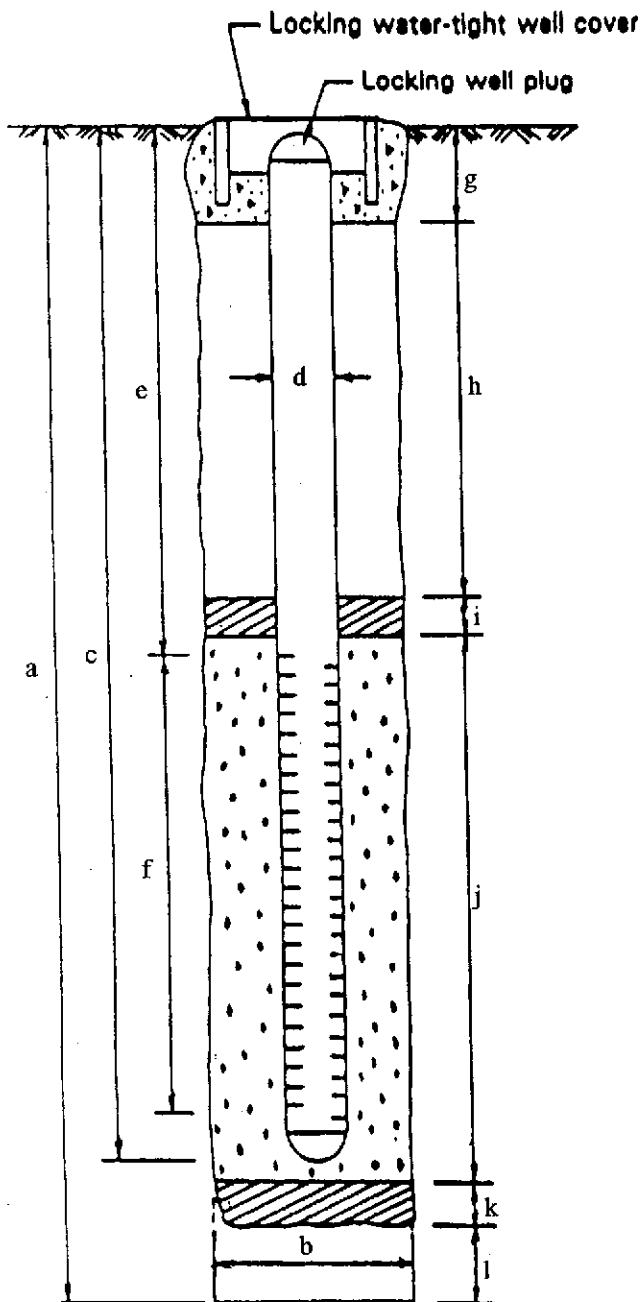
# P & D ENVIRONMENTAL

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55 Santa Clara Avenue, Suite 240  
Oakland, CA 94610  
(510) 658-6916

## WELL CONSTRUCTION DIAGRAM

PROJECT NUMBER 0363  
PROJECT NAME TD Rowe, Oakland  
COUNTY Alameda  
WELL PERMIT NO. W04-0453

BORING/WELL NO. MW2  
TOP OF CASING ELEV. See attached  
GROUND SURFACE ELEVATION See attached  
DATUM See attached



### EXPLORATORY BORING

a. Total depth 12 ft.  
b. Diameter 7.5 in.  
Drilling method Hollow Stem Auger

### WELL CONSTRUCTION

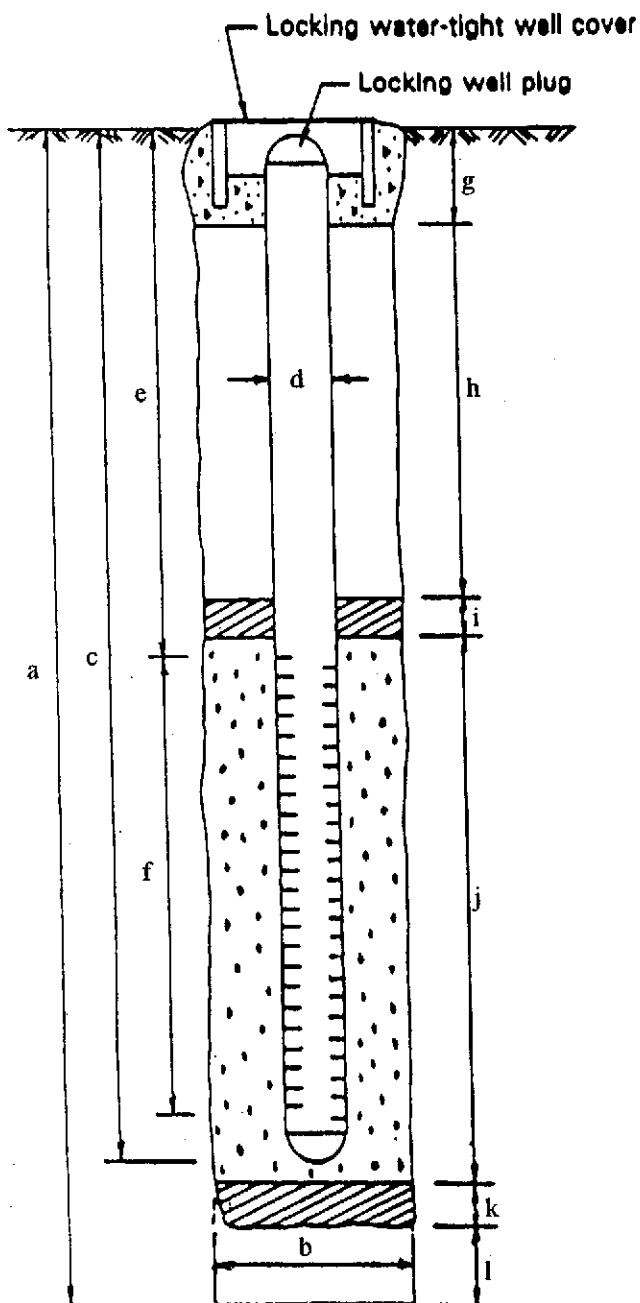
c. Casing length 11.5 ft.  
d. Material Schedule 40 PVC  
d. Diameter 2 in.  
e. Depth to top of perforations 4 ft.  
f. Perforated length 7.5 ft.  
Perforated interval from 4 to 11.5 ft.  
Perforation type factory slot  
Perforation size 0.010 in.  
g. Surface sanitary seal 1 ft.  
Seal material concrete  
h. Sanitary seal 1 ft.  
Seal material neat cement  
i. Filter pack seal 1 ft.  
Seal material Bentonite pellet  
j. Filter pack length 9 ft.  
Filter pack interval from 3 to 12 ft.  
k. Pack material #2/12 RMC Pacific sack sand  
l. Bottom seal 0 ft.  
Seal material None  
l. Sluff in bottom of borehole 0 ft.

# P & D ENVIRONMENTAL

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 35 Santa Clara Avenue, Suite 240  
 Oakland, CA 94610  
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## WELL CONSTRUCTION DIAGRAM

PROJECT NUMBER 0363 BORING/WELL NO. MW3  
 PROJECT NAME TD Rowe, Oakland TOP OF CASING ELEV. See attached  
 COUNTY Alameda GROUND SURFACE ELEVATION See attached  
 WELL PERMIT NO. W04-0454 DATUM See attached



### EXPLORATORY BORING

a. Total depth 12 ft.  
 b. Diameter 7.5 in.  
 Drilling method Hollow Stem Auger

### WELL CONSTRUCTION

c. Casing length 11.5 ft.  
 d. Material Schedule 40 PVC  
 d. Diameter 2 in.  
 e. Depth to top of perforations 4 ft.  
 f. Perforated length 7.5 ft.  
 Perforated interval from 4 to 11.5 ft.  
 Perforation type factory slot  
 Perforation size 0.010 in.  
 g. Surface sanitary seal 1 ft.  
 Seal material concrete  
 h. Sanitary seal 1 ft.  
 Seal material neat cement  
 i. Filter pack seal 1 ft.  
 Seal material Bentonite pellet  
 j. Filter pack length 9 ft.  
 Filter pack interval from 3 to 12 ft.  
 k. Pack material #2/12 RMC Pacific sack sand  
 l. Bottom seal 0 ft.  
 Seal material None  
 l. Stuff in bottom of borehole 0 ft.

202248

2

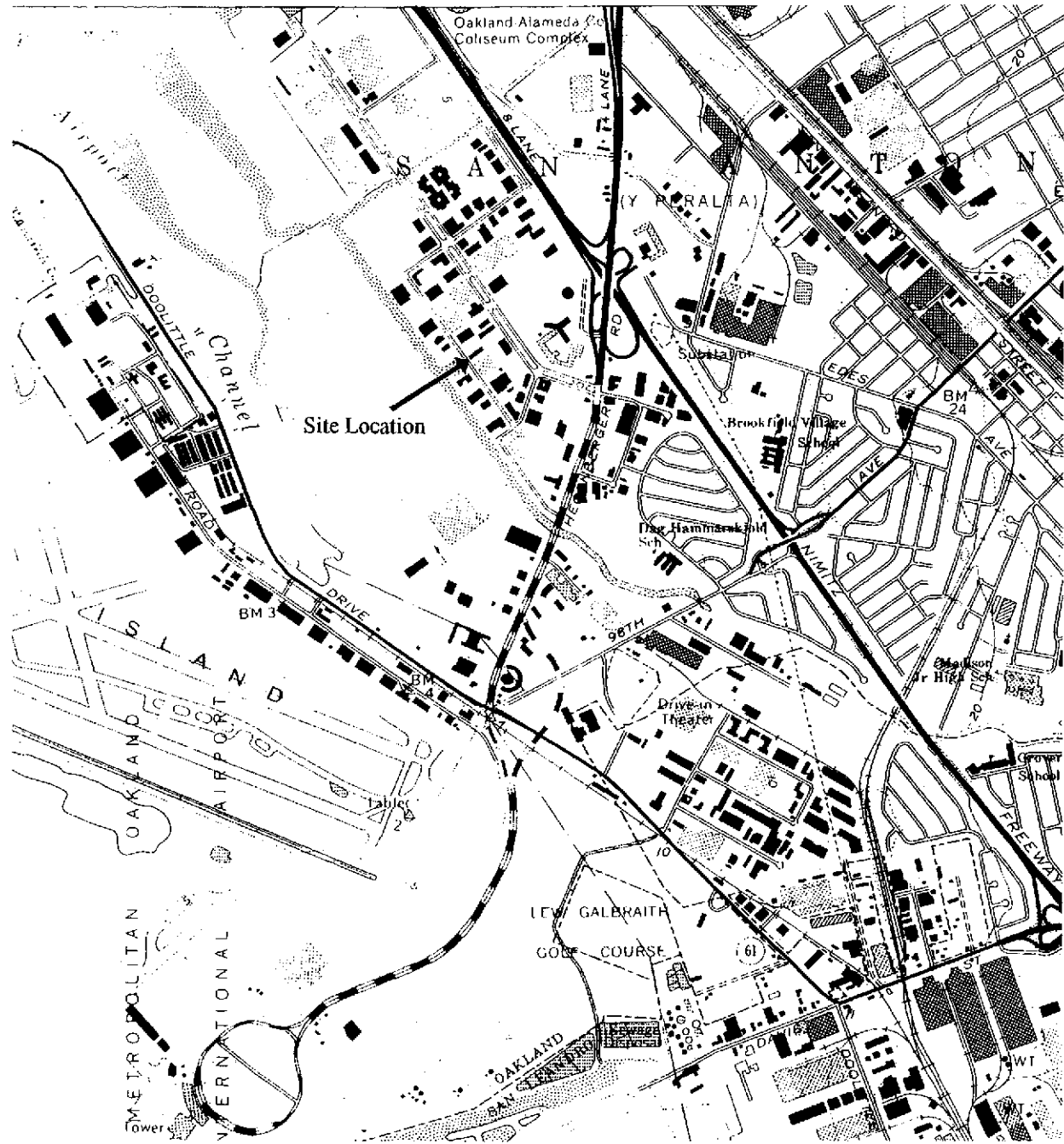
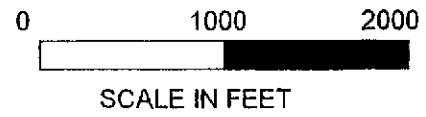


Figure 1  
 Site Location Map  
 8134 Capwell Drive  
 Oakland, California



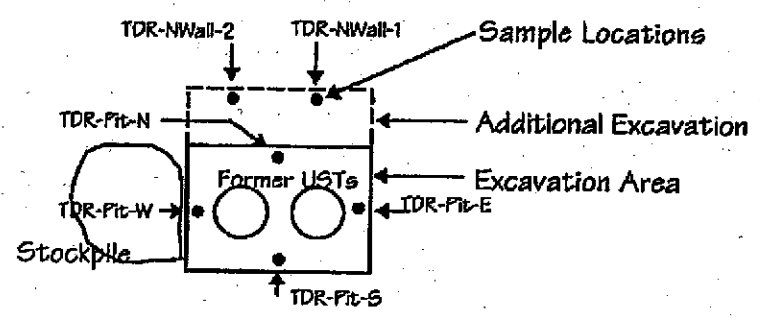
Base Map From:  
 U.S. Geological Survey  
 San Leandro, Calif.  
 Photorevised 1980

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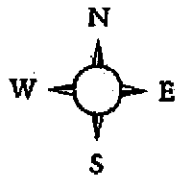
Capwell Drive

Fence



Building

Building

Title: <b>Sample Location Map</b> <b>8134 Capwell Drive</b> <b>Oakland, California</b>	
Figure Number: 2	Scale: 1" = 20'
Project Number: 6546-002.0	Drawn By: KMB
<b>A·C·C</b> ENVIRONMENTAL CONSULTANTS	Date: 8/9/99
	
7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	

**TABLE 1 - SOIL SAMPLE ANALYTICAL RESULTS**

Sample ID	TPHg mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- Benzene mg/kg	Xylenes mg/kg	MTBE mg/kg	Lead mg/kg
TDR-Pit-N	5900	ND	8.3	66	420	ND	5.8
TDR-Pit-S	10	ND	ND	ND	ND	42*	10
TDR-Pit-E	73	ND	ND	ND	ND	ND	ND
TDR-Pit-W	ND	ND	ND	ND	ND	57/32**	6.1
TDR-SP1- SP8	84	ND	ND	ND	ND	ND	ND
TDR-NWall-1	ND	ND	ND	ND	ND	ND	6.7
TDR-NWall-2	ND	ND	ND	ND	ND	ND	5.6

Notes: mg/kg = milligrams per kilogram = ppm = parts per million

\* = laboratory analysis confirms tertiary butyl alcohol (TBA)

\*\* = laboratory analysis confirms TBA/MTBE

ND = below laboratory reporting limits

*MTBE  
in soil  
not in lead*

**TABLE 2 - WATER SAMPLE ANALYTICAL RESULTS**

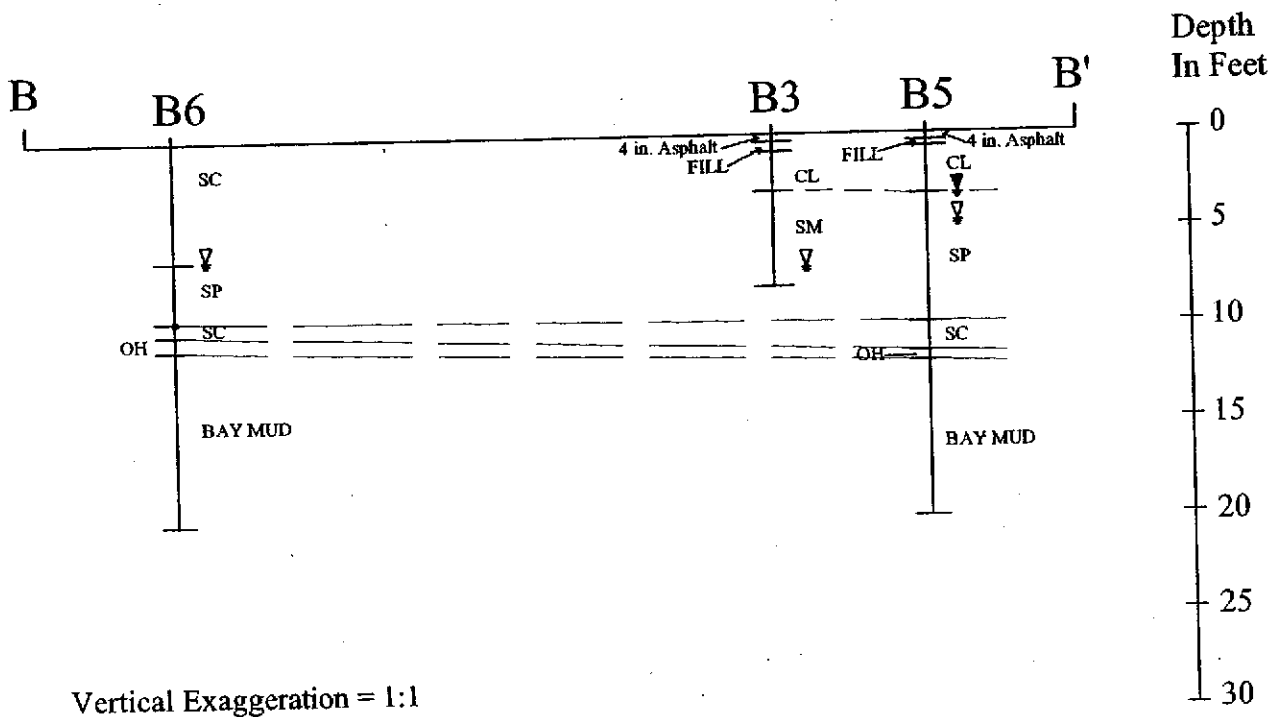
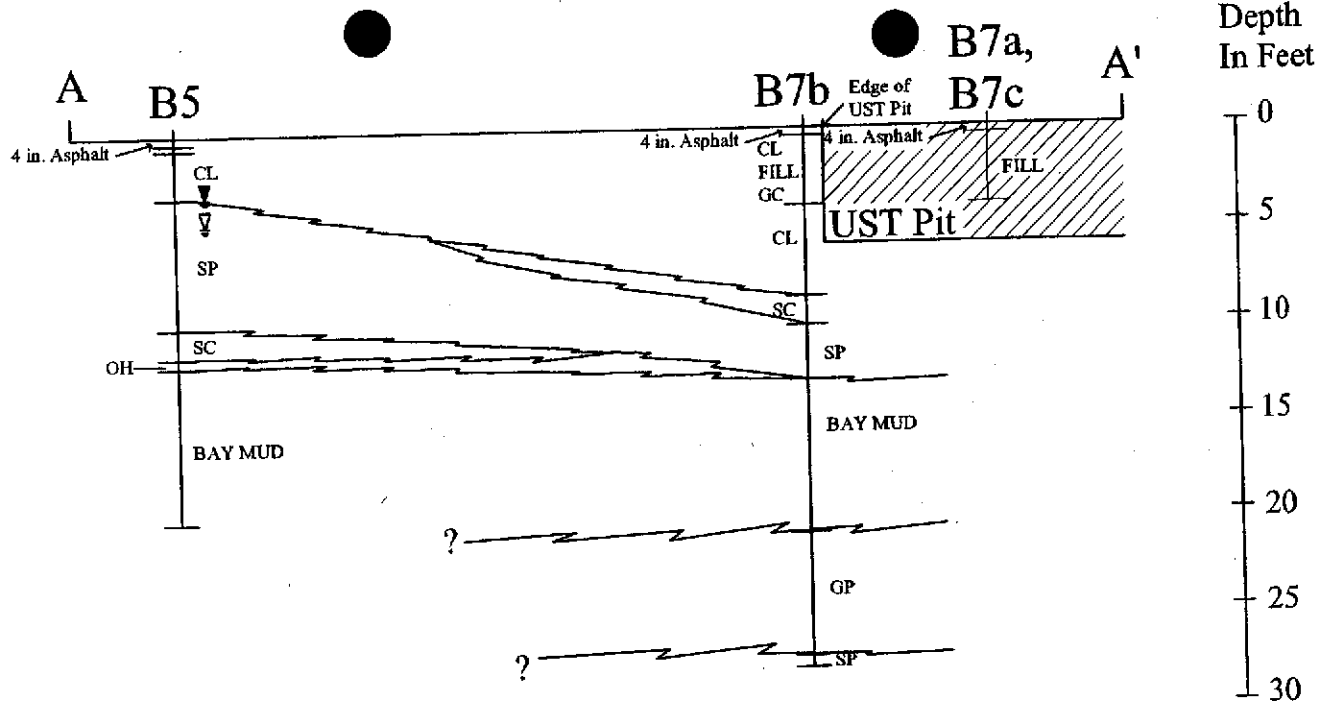
Sample ID	TPHg mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- Benzene mg/kg	Xylenes mg/kg	MTBE mg/kg	Lead mg/kg
TDR-Pit	99,000	220	500	1,500	14,000	ND	0.82
Pit-2	3,200	40	3.1	11	54	ND	0.037

Notes: µg/L = micrograms per Liter = ppb = parts per billion

ND = below laboratory detection limits

Analytical results from the pit water sample collected after overexcavation (Pit-2) indicate a significant reduction in concentrations of TPHg and BTEX constituents when compared to the original water sample.





Vertical Exaggeration = 1:1

Figure 3  
 Geologic Cross-Sections  
 8134 Capwell Drive  
 Oakland, California

**P & D ENVIRONMENTAL**

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 55 Santa Clara Avenue, Suite 240  
 Oakland, CA 94610  
 (510) 658-6916

0 10  
 Scale In Feet

BORING NO.: B7b		PROJECT NO.: 0363		PROJECT NAME: T.D. Rowe, Oakland	
BORING LOCATION: Approx. 1 ft. west of sawcut for UST pit.				ELEVATION AND DATUM: NONE	
DRILLING AGENCY: Vironex, Inc		DRILLER: Brandon		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Geoprobe 5400				4/26/05	4/26/05
COMPLETION DEPTH: 28.0 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: 6.1 FEET		NO. OF SAMPLES: 6 soil, 0 water		WRW	

DEPTH (FT.)	DESCRIPTION	GRAPHIC COLUMN	WELL CONSTRUCTION LOG	BLOW COUNT PER 6"	PID	REMARKS
	4 in. Asphalt	FILL	No Well Constructed		PID not working.	Borehole B7b continuously cored using a 4-foot long 2-inch O.D. Geoprobe Macro-core barrel sampler. Samples collected in 4-foot intervals. The sampler was lined with 4-foot long 1 3/4 inch O.D. cellulose acetate tubes.  90% recovery from 0-4 ft. 60% recovery from 4-8 ft.  9.5 to 9.8 ft. sand layer with strong PHC sheen and odor.  First water encountered at approx. 10.3 ft., 1:30pm.  20% recovery from 8-12 ft.  20% recovery from 12-16 ft.  20% recovery from 16-20 ft.  60% recovery from 20-24 ft. (barrell jammed) 80% recovery from 24-28 ft. (60% slough)  No water sample collected from borehole (see B7a/B7c boring log).  Borehole B7a, in UST pit, used for collection of water sample at 8.0 feet (no soil recoverable). Borehole B7b, adjacent to western edge of UST pit, used for collection of soil samples to 28.0 feet. Borehole B7c, in UST pit, used for collection of water sample at 28.0 feet.
0.3 to 1.0 ft.	Light brown sand (FILL); medium dense, slightly moist. No PHC odor	CL				
1.0 to 2.5 ft.	Gray silty clay (CL); very stiff, slightly moist. Slight PHC odor.	GC				
2.5 to 3.7 ft.	Light brown sandy clayey gravel (GC); slightly moist. No PHC odor.	CL				
3.7 to Est. 9.0 ft.	Black and gray silty clay (CL); stiff, moist. Strong PHC odor.					
Est. 9.0 to 10.3 ft.	Black clayey sand (SC); loose, saturated. Strong PHC odor and sheen.	<SC				
Est. 10.3 to 13 ft.	Gray fine sand (SP); medium dense, wet. Moderate PHC odor.	SP				
Est. 13 to 21 ft.	Gray clay (BAY MUD); stiff, wet. No PHC odor. (13 to 18 ft. Black colored + strong PHC odor) (18 to 21 ft. Gray colored + moderate to slight PHC odor)	BAY MUD				
Est. 21 to 27 ft.	Brown sandy gravel (GP); saturated. Possible slight PHC odor (odor observed by driller but not by P&D).	GP				
27 to 28 ft.	Brown fine sand (SP); loose, saturated. No PHC odor.	SP				
28.0 ft.	Borehole terminated at 28.0 feet. Borehole grouted 4/26/05 using neat cement.					

*Handwritten notes:*  
 4/26/05  
 Confirms  
 from logs since on  
 10 to 4 ft  
 Camp Va.

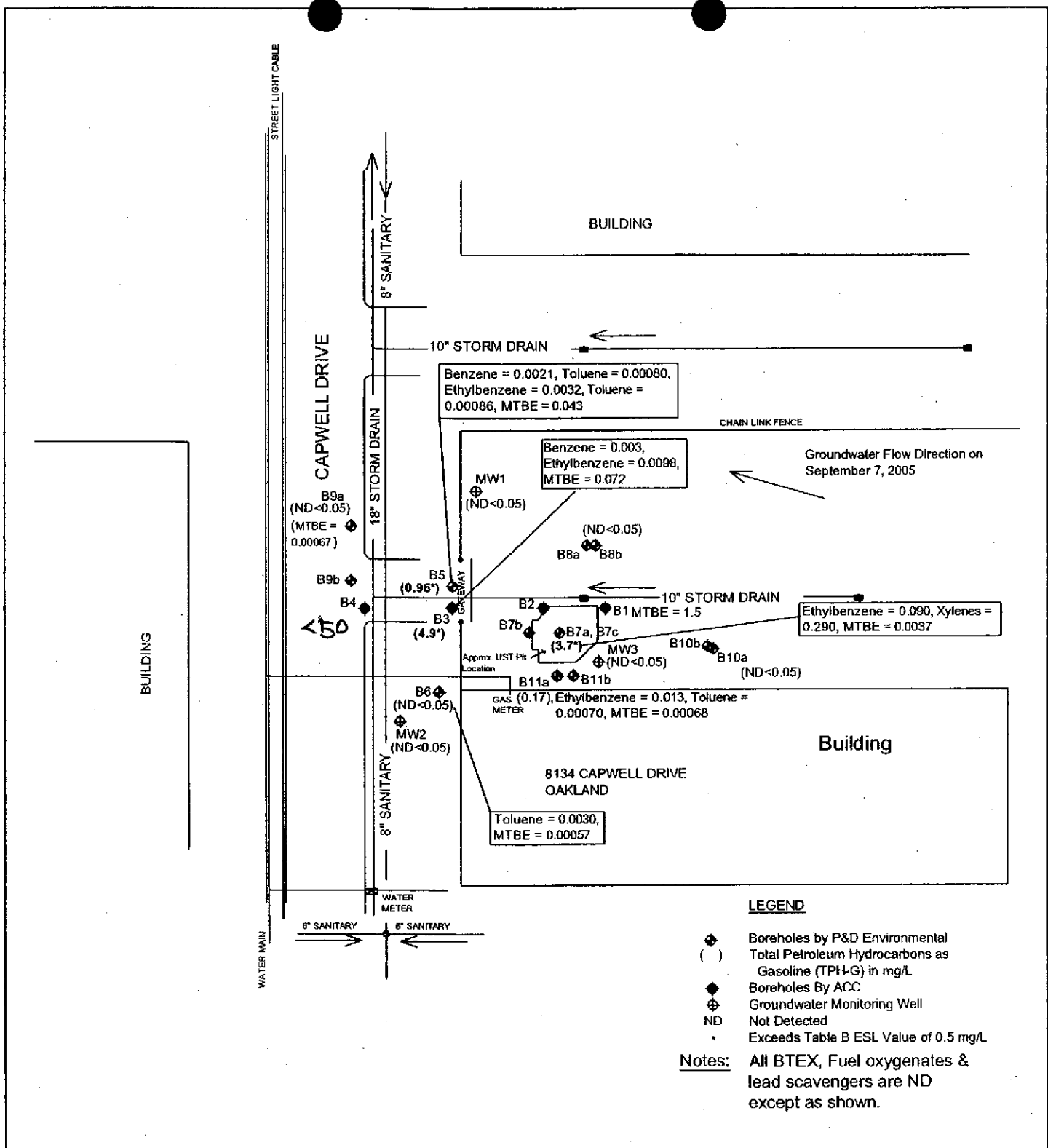


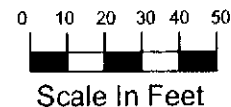
Figure 5  
 TPH-G in Shallow Groundwater at 8 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
 California Utility Surveys  
 Feb. 14, 2005

**P & D ENVIRONMENTAL, INC.**

55 Santa Clara Avenue, Suite 240  
 Oakland, CA 94610  
 (510) 658-6916



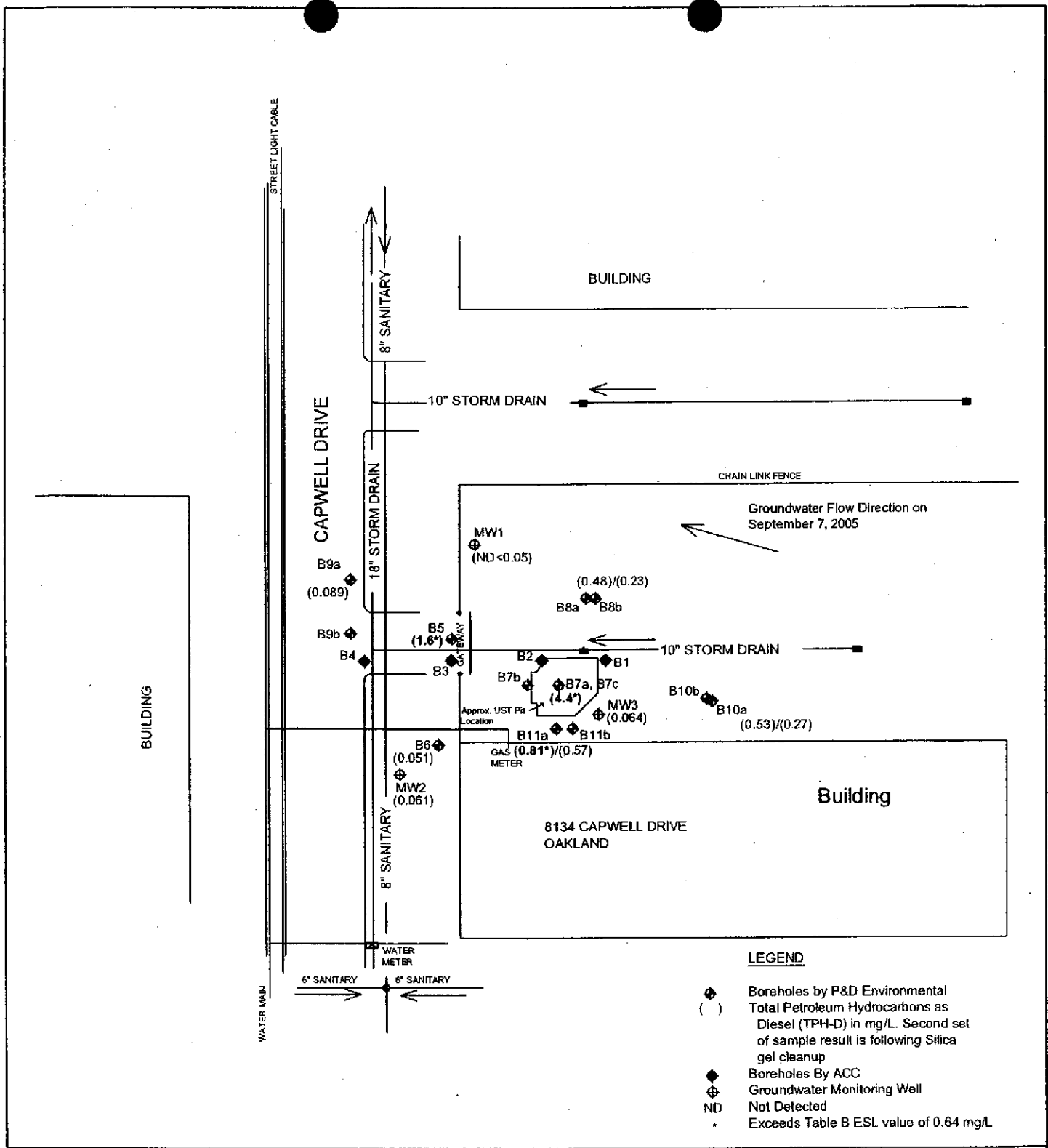
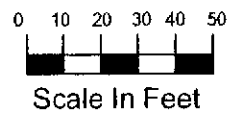


Figure 6  
 TPH-D in Shallow Groundwater at 8 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
 California Utility Surveys  
 Feb. 14, 2005

**P & D ENVIRONMENTAL, INC.**  
 55 Santa Clara Avenue, Suite 240  
 Oakland, CA 94610  
 (510) 658-6916



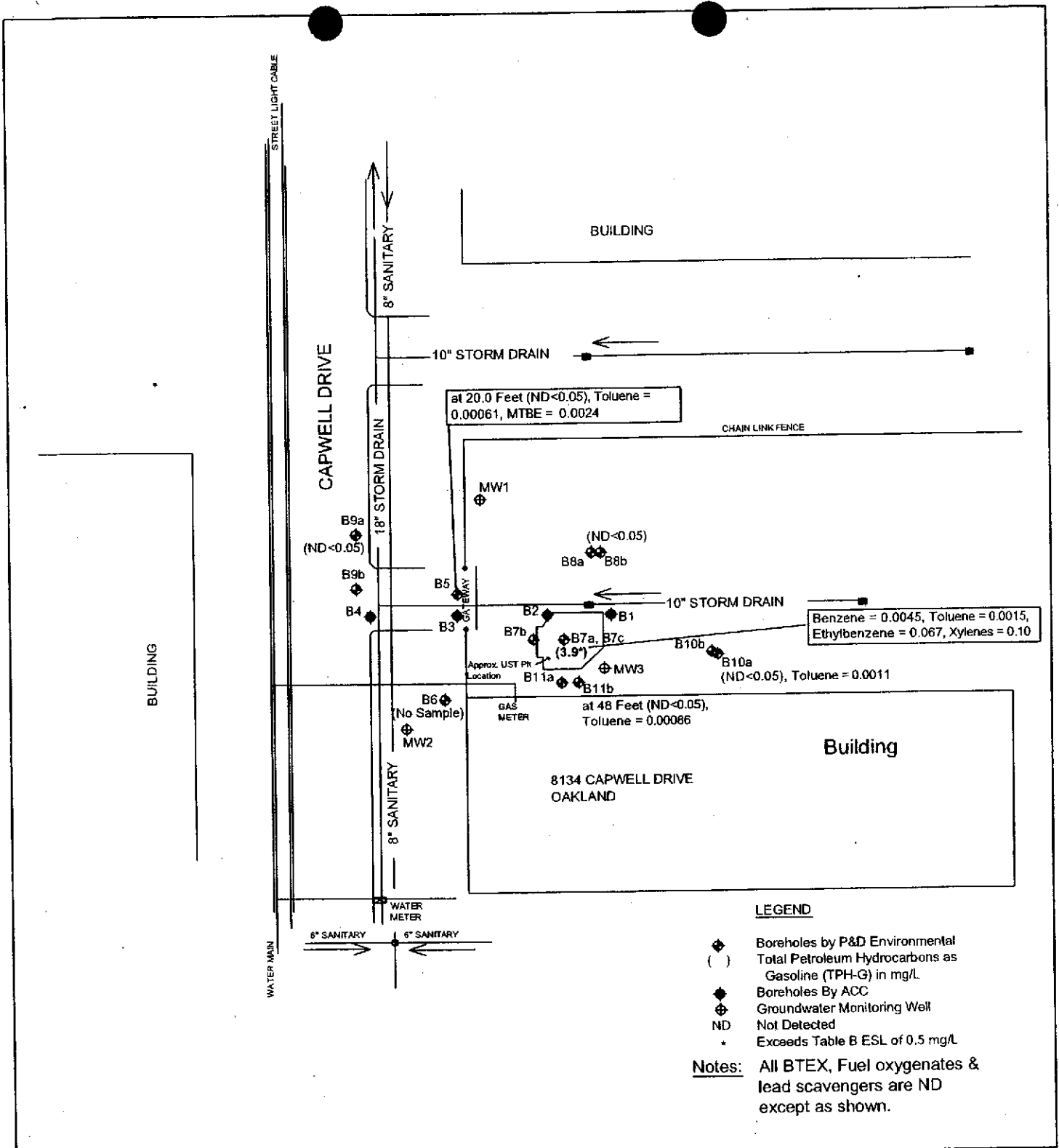


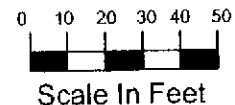
Figure 8  
 TPH-G in Deeper Groundwater at 26-28 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
 California Utility Surveys  
 Feb. 14, 2005

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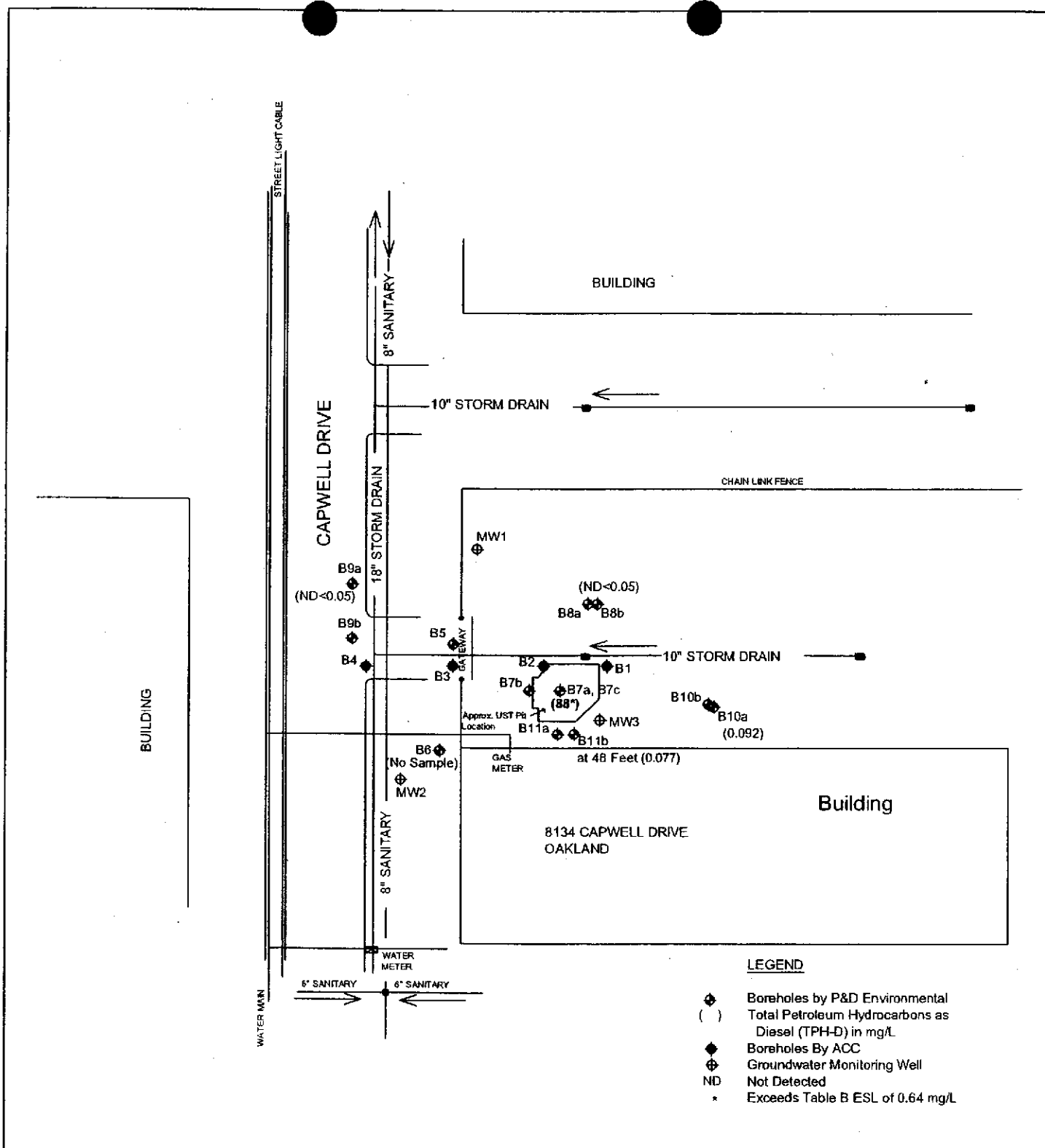


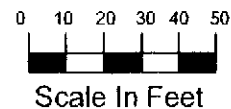
Figure 9  
 TPH-D in Deeper Groundwater at 26-28 Feet Below Ground Surface  
 8134 Capwell Drive  
 Oakland, California



Base Map From  
 California Utility Surveys  
 Feb. 14, 2005

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 Oakland, CA 94610  
 (510) 658-6916



BORING NO.: B11EC		PROJECT NO.: 0363		PROJECT NAME: T.D. Rowe, Oakland	
BORING LOCATION: Between building and former UST Pit			ELEVATION AND DATUM: NONE		
DRILLING AGENCY: Vironex, Inc		DRILLER: Kurt and Kyle		DATE & TIME STARTED:	DATE & TIME FINISHED:
DRILLING EQUIPMENT: Geoprobe 6610 DT Track Rig				9/7/05	9/7/05
COMPLETION DEPTH: 58.0 FEET		BEDROCK DEPTH: None encountered		LOGGED BY:	CHECKED BY:
FIRST WATER DEPTH: Unknown FEET		NO. OF SAMPLES: None		WRW	

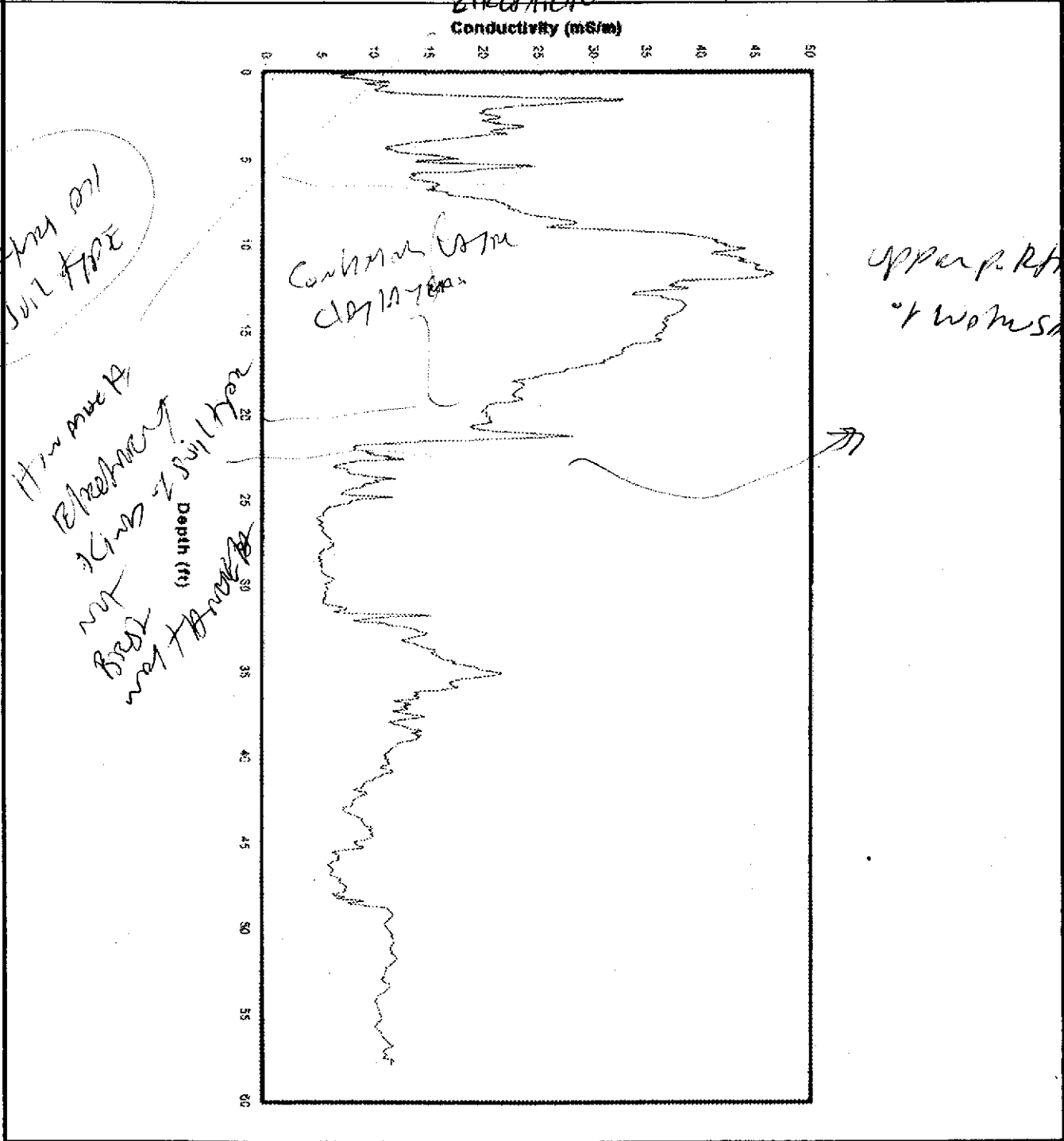


TABLE 4  
SUMMARY OF LABORATORY ANALYTICAL RESULTS -  
BOREHOLE GROUNDWATER GRAB SAMPLES

Sample Name	TPH-G	TPH-D/ TPH-D With SGC	TPH-MO/ TPH-MO With SGC	Benzene	Toluene	Ethyl- benzene	Xylenes	Other VOCs By 8260B
B8a-8.0, Water	ND<0.05	0.48,a,d/ 0.23,a,d	6.0/ 2.9	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005
B9a-8.0, Water	ND<0.05	0.089,a,d	0.41	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005, except MTBE = 0.00067
B10a-8.0, Water	ND<0.05	0.53,a,d/ 0.27,a,d	4.7/ 2.1	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005
B11a-8.0, Water	0.17, a	0.81,a,d/ 0.57,a,d,f	4.9/ 4.1	ND<0.0005	0.0007	0.013	ND<0.0005	ND<0.0005 except MTBE = 0.00068
B8b-28.0, Water	ND<0.05	ND<0.05	ND<0.25	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005
B9b-26.0, Water	ND<0.05	ND<0.05	ND<0.25	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005
B10b-27.0, Water	ND<0.05	0.092,d,a	0.39	ND<0.0005	0.0011	ND<0.0005	0.00054	ND<0.0005
B11b-48.0, Water	ND<0.05	0.077,a	ND<0.25	ND<0.0005	0.00086	ND<0.0005	ND<0.0005	ND<0.0005
ESL <sub>2</sub>	0.64	0.64	0.5	0.046	0.13	0.29	0.10	MTBE = 1.8

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

SGC = Silica Gel Cleanup performed to remove non-petroleum hydrocarbons.

TPH-MO= Total Petroleum Hydrocarbons as Motor Oil.

VOCs = Volatile Organic Compounds.

MTBE = Methyl-butyl ether

ESL<sub>2</sub> = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB) updated February 2005, from Table B – Shallow Soils, Groundwater is not a current or potential source of drinking water.

a = Laboratory analytical report note: heavier gasoline range compounds are significant, possibly aged gasoline.

b = Laboratory analytical report note: diesel range compounds are significant; no recognized pattern.

c = Laboratory analytical report note: no recognizable pattern.

d = Laboratory analytical report note: strongly aged gasoline or diesel range compounds are significant.

e = Laboratory analytical report note: oil range compounds are significant.

f = Laboratory analytical report note: gasoline range compounds are significant

ND = Not detected.

Results are in mg/L, unless otherwise indicated.